ORDER NO. MD0603073C3

Service Manual

Home Theater Audio System

* DOLBY DIGITAL PRO LOGIC II

** DIGITAL dts SURROUND

SA-HT40GN / SA-HT40GT

Colour

(S).......................Silver Type

SPECIFICATIONS

Specification

■ AMPLIFIER SECTION

RMS output power of each channel driven

10% total harmonic distortion

1 kHz front CH

90 W per channel (4 Ω)

1 kHz surround CH

90 W per channel (4 Ω)

1 kHz center CH

220 W per channel (6 Ω)

100 Hz subwoofer CH

220 W per channel (6 Ω)

Total RMS output power 800 W

Rated minimum sine wave RMS power output

1% total harmonic distortion (Dolby Digital mode)

1 kHz front CH

50 W per channel (4 Ω)

1 kHz surround CH

50 W per channel (4 Ω)

1 kHz center CH

150 W per channel (6 Ω)

100 Hz subwoofer CH

	150 W per channel (6 Ω)
Total RMS output power	500 W
Total harmonic distortion	
Half power at 1 kHz (Front CH)	0.5% (4 Ω)
Input sensitivity	
GAME/AUX, TV, DVR/DVD-P	450 mV, IHF’66
MUSIC PORT	250 mV, IHF’66
S/N at rated power (4 Ω)	
GAME/AUX, TV, DVR/DVD-P	80 dB, (85 dB, IHF’66)
MUSIC PORT	70 dB, (85 dB, IHF’66)
Input impedance	
GAME/AUX, TV, DVR/DVD-P, MUSIC PORT	47 kΩ
Tone controls	
BASS	50 Hz, +10 to -10 dB
TREBLE	20 kHz, +10 to -10 dB
Digital input	
OPTICAL	2
COAXIAL	1

■ FM TUNER SECTION

Frequency range	87.50 MHz to 108.00 MHz
Sensitivity	
S/N 30 dB	1.9 μV/75 Ω
S/N 26 dB	1.8 μV/75 Ω
S/N 20 dB	1.6 μV/75 Ω
IHF usable sensitivity	(IHF’58) 2.2 μV/75 Ω
IHF 46 dB stereo quieting sensitivity	22 μV/75 Ω
Total Harmonic distortion	
MONO	0.2%
STEREO	0.3%
S/N	
MONO	60 dB (71 dB, IHF)
STEREO	58 dB (65 dB, IHF)
Frequency response	20 Hz to 15 kHz, +1 dB, -2 dB
Image rejection at 98 MHz	40 dB
IF rejection at 98 MHz	70 dB
Stereo separation (1 kHz)	40 dB
Antenna terminal	75 Ω (unbalanced)

■ AM TUNER SECTION

Frequency range	522 kHz to 1611 kHz (9 kHz steps) 530 kHz to 1620 kHz (10 kHz steps)
Sensitivity	500 μV/m
Selectivity (at 999 kHz)	30 dB

■ GENERAL

Power supply	
	AC 230 to 240 V, 50 Hz (for GN)
	AC 110 V, 60 Hz (for GT)
Power consumption	120 W
Max. power consumption	650 W (GT)
Dimensions (W × H × D)	
	430 mm x 105 mm x 385 mm
Mass	3.8 kg
Power consumption in standby mode:	1 W

■ SYSTEM

System: SC-HT40 (GN)

Main unit: SA-HT40 (GN)
Front speakers: SB-PF41 (GN)
Surround speakers: SB-PS41 (GN)
Center speaker: SB-PC40 (P)
Subwoofer: SB-W40 (P)

System: SC-HT40 (GT)

Main unit: SA-HT40 (GT)
Front speakers: SB-PF41 (GT)
Surround speakers: SB-PS41 (GT)
Center speaker: SB-PC40 (GT)
Subwoofer: SB-W40 (GT)

Notes:

1. Specifications are subject to change without notice. / Mass and dimensions are approximate.
2. Total harmonic distortion is measured by the digital spectrum analyzer.

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** Manufactured under license from Digital Theater System. / "DTS" and "DTS Digital Surround" are trademarks of Digital Theater System.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Panasonic

1. Safety Precautions

1.1. General Guidelines

1. When servicing, observe the original lead dress. If a short circuit

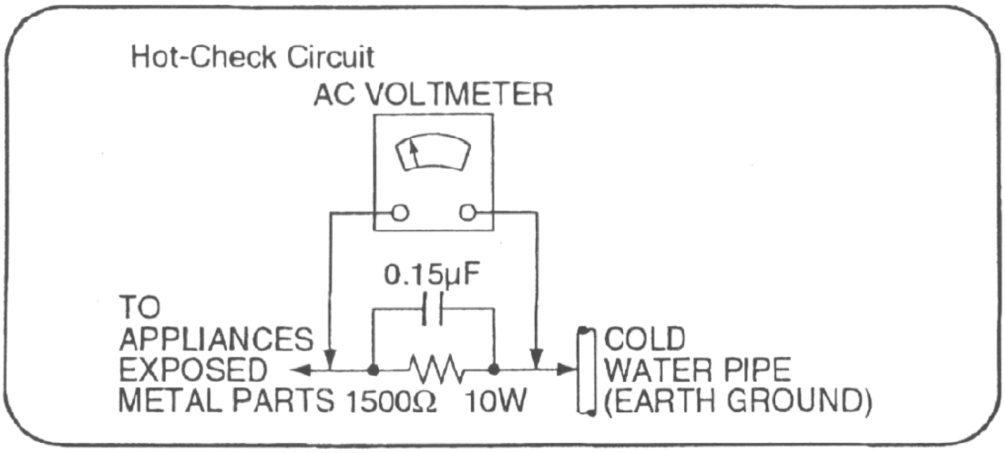
is found, replace all parts which have been overheated or damaged by the short circuit.

2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

1.1.1. Leakage Current Cold Check

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 1M Ω and 5.2 Ω . / When the exposed metal does not have a return path to the chassis, the reading must be ∞ .**

Fig. 1



1.1.2. Leakage Current Hot Check (See Figure 1.)

1. **Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10 watts resistor, in parallel with a 0.15 μ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.**

3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverse the AC plug in the AC outlet and repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.**

1.2. Before Repair and Adjustment

Disconnect AC power, discharge Power Supply Capacitors C707 & C1706 through a 10 Ω , 1W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

Current consumption at AC 110 V, 60Hz in NO SIGNAL mode should be 200 ~ 800 mA (GT).

Current consumption at AC 230 V - 240 V, 50Hz in NO SIGNAL mode should be 200 ~ 800 mA (GN).

1.3. Protection Circuitry

The protection circuitry may have operated if either of the following conditions is noticed:

***No sound is heard when the power is supplied.**

***Sound stops during a performance.**

The functions of this circuitry is to prevent circuitry damage, for example, the positive and negative speaker connection wires are “shorted”, or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.

If this occurs, follow the procedure outlined below:

1. **Press the STANDBY ⏻ /ON button, switch to STANDBY mode.**
2. **Determine the cause of the problem and correct it.**
3. **Press the STANDBY ⏻ /ON button once again, supply the power.**

Note:

When the protection circuitry functions, the unit will not operate unless the STANDBY ⏻ / ON button is first switched STANDBY and then ON again.

2. Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor “chip” components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

1. **Immediately before handling any semiconductor component or semiconductor-equiped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.**
2. **After removing an electrical assembly equiped with ES devices, place the assembly on a conductive surface such as aluminium foil, to prevent electrostatic charge build up or exposure of the assembly.**
3. **Use only a grounded-tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder remover device. Some solder removal devices not classified as “anti-static (ESD protected)” can generate electrical charge to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminium foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be**

installed.

Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. **Minimize body motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).**

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety. These parts are marked by ⚠ in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

3. Handling the Lead Solder

3.1. About Lead Free Solder (PbF)

Distinction of PbF P.C.B. :

P.C.B.s (manufactured) using lead free solder will have a PbF stamp on the P.C.B.

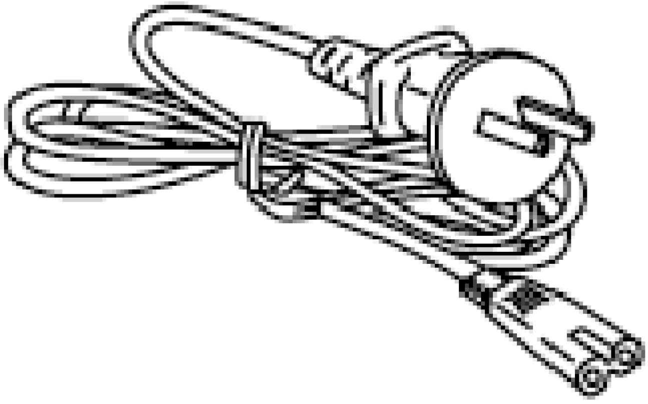
Caution:

- **Pb free solder has a higher melting point that standard solder; Typically the melting point is 50 - 70°F (30 - 40°C) higher. / Please use a high temperature soldering iron. In case of the soldering iron with temperature control, please set it to 700 ± 20°F (370 ± 10°C).**
- **Pb free solder will tend to splash when heated too high (about 1100°F/600°C).**
- **When soldering or unsoldering, please completely remove all of the solder on the pins or solder area, and be sure to heat the soldering points with the Pb free solder until it melts enough.**

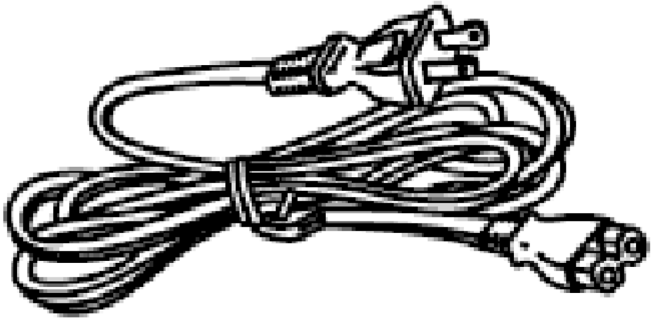
4. Accessories

Note: Refer to Packing Materials & Accessories (Section 18) for part number.

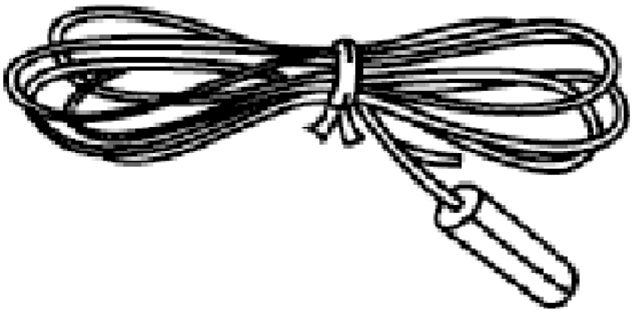
AC power cord (for GN only)



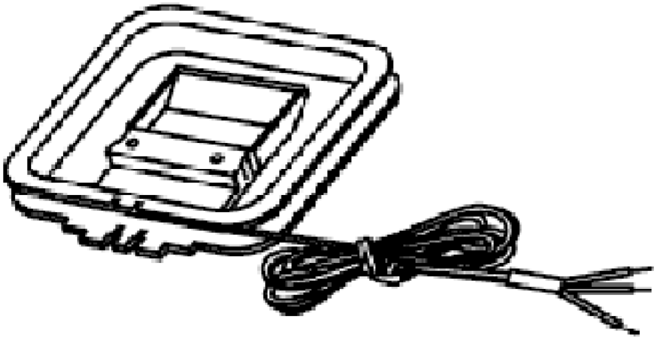
AC power cord (for GT only)



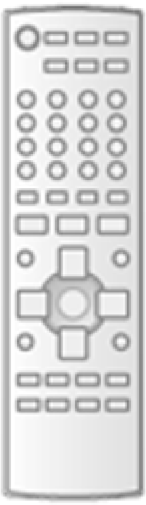
FM indoor antenna



AM loop antenna



Remote control



5. Operation Procedures

5.1. Remote Control Operation

5.2. Main Unit Operation

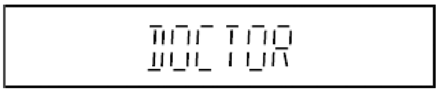
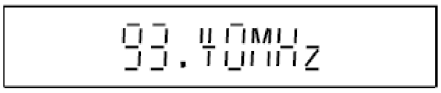
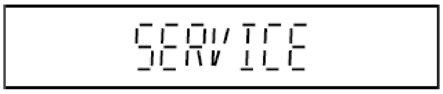
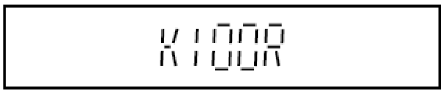
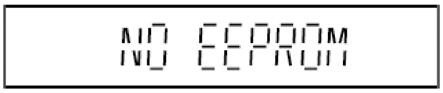
6. New Features

6.1. Music Port

7. Self Diagnosis and Special Mode Setting

This unit is equipped with function for checking and inspecting namely: Self-Diagnostic and Test Mode.

7.1. Doctor & Service Mode (Special Mode setting)

Item		FL Display	Key Operation
Mode Name	Description		Front Key
Doctor Mode	To enter into Doctor Mode for checking of various items. (For more information, refer to section 7.1.1.)	1. FL will display as below for 3s:  2. Initialization of all settings & the tuner frequency is set as below.  	1. Press & hold [INPUT SELECT and [-MENU] main unit follow by the [⏻/I, POW button at the same time. To exit, press the [⏻/I, POW button on the main unit or control.
Service Mode	To enter into Service Mode for checking of uP software Version and displaying EEPROM checksum.	1. FL will display as below:  2. Next is the micro-processor firmware version no.  3. This is follow by checking of EEPROM:-  Notes: 1. When NO EEPROM, it will display "NO EEPROM". 2. When there is EEPROM, it will display "SUM****" whereby **** refers to check sum no. (ROM Correction).	For Service mode: 1. Press & hold [INPUT SELECT and [TUNE, button on main unit follow by the [⏻/I, POW button at the same time. To check uP software Vers 1. Press [TUNE, button on main unit. To check EEPROM: 1. Press [TUNE, button on main unit. To exit, press the [⏻/I, POW button on main unit or rem control.

7.1.1. Inspection & Checking Items

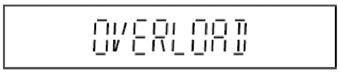
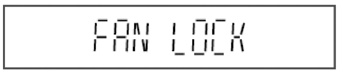
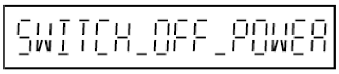
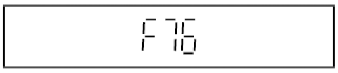
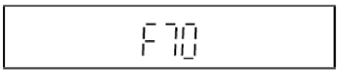
After entering into doctor mode, the main unit can be used for checking of various items using the remote control.

Remote Control	Test Mode Function and settings			
	Selector	Sound Mode	Other setting	Vol/Tone
CH 1	TV	STEREO	Analog	-18dB/0dB
CH 2	DVR/DVD-P	STEREO	Analog	-18dB/0dB
CH 3	REAR MUSIC PORT	STEREO	Analog	-18dB/0dB
CH 4	FRONT MUSIC PORT	STEREO	Analog	-18dB/0dB
CH 5	TV	STEREO	Digital (OPT 1)	-48dB/0dB
CH 6	DVR/DVD-P	STEREO	Digital (OPT 2)	-48dB/0dB
CH 7	TV	STEREO	Digital (COAX)	-48dB/0dB
CH 8	If the input selector is TUNER, auto tuning function is started to upward on current frequency.			
CH 9	If the input selector is TUNER, auto tuning function is started to downward on current frequency.			
CH 0	If the input selector is TUNER in E2 mode, Display Mode (PS/PTY) is changed.			
≧10	TUNER	STEREO	Frequency: FM max FM Mode: MONO	-48dB/0dB
MUTING	All indicators of FL are displayed. All LED are off. Note: After this setting, only 'POWER' button by the remote control can be entered.			
Volume Up	Check Main uP software Version. Display [K 100R **]; **is current version. * Volume is still increased but not displayed.			
Volume Down	Check for EEPROM & Check Sum. Display [SUM ****]; **** is checksum. If no ROM correction, and when EEPROM is not attach, display [NO_EEPROM] * Volume is still reduced but not displayed.			
SUBW	DVR/DVD-P	----------	All CH printed out	-18dB/0dB
LEVEL	No change	SURROUND	Scan the test noise output channel with 500ms intervals.	-18dB/0dB
-/L	TV	STEREO	Balance is set to leftmost.	-18dB/0dB
+/R	TV	STEREO	Balance is set to rightmost	-18dB/0dB

7.2. Error Code Table

Self- Diagnosis Function provides information on any problems occuring for the units and its

respective parts by displaying error codes.

Error Code	Diagnosis Contents	Description of error	Automatic FL Display	Remarks
OVERLOAD	**Speaker short, power amplifier failure** **Digital amplifier abnormal operation**	**Both [SHORT_DET] & [FAN_LOCK] signal is detected as active high while [DC_DET] signal is active low.**		
FAN LOCK	**Detection of FAN LOCK**	**Both [SHORT_DET] & [DC_DET] signal is detected as active high while [FAN_LOCK] signal is active low.**	  *** When any button is next press when in this condition.**	**All channels in muting.**
F76	**Detection of POWER MALFUNCTION & abnormal operation**	**Both [FAN_LOCK] & [DC_DET] signal is detected as active high while [SHORT_DET] is active low.**		
F70	**Detection of POWER MALFUNCTION & abnormal operation**			

8. Assembling and Disassembling

8.1. Caution

“Attention Servicer”

Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. **This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.**
2. **For reassembly after operation checks or replacement, reverse the respective procedures.**

Special reassembly procedures are described only when required.

3. Select items from the following index when checks or replacement are required.

4. Refer to the Parts No. on the page of "Replacement Parts List" (Section 18), if necessary.

Below is the list of disassembly procedures

- Disassembly of Top Cabinet

- Disassembly of Rear Panel

- Disassembly of Front Panel

- Disassembly of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.

- Disassembly of Main P.C.B.

- Disassembly of DSP P.C.B.

- Disassembly of AC In P.C.B.

- Disassembly of Power P.C.B.

- Disassembly of Digital Amp P.C.B.

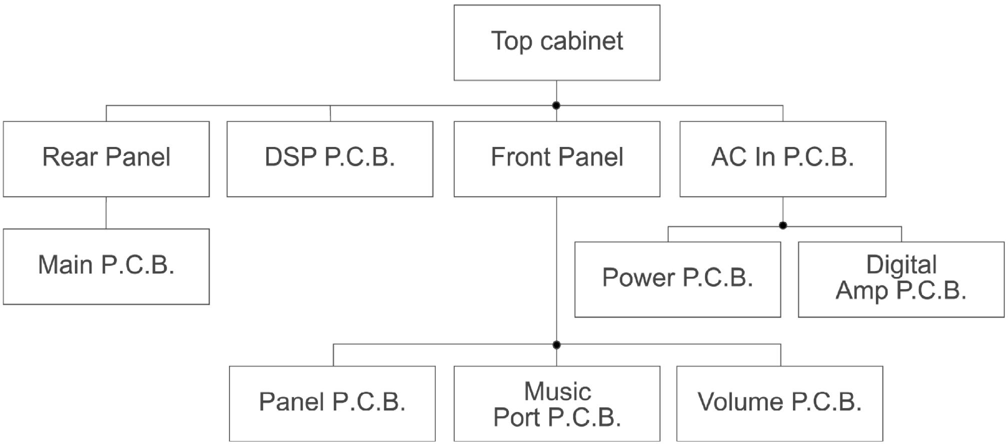
Caution

Do ensure the correct screw is uses.

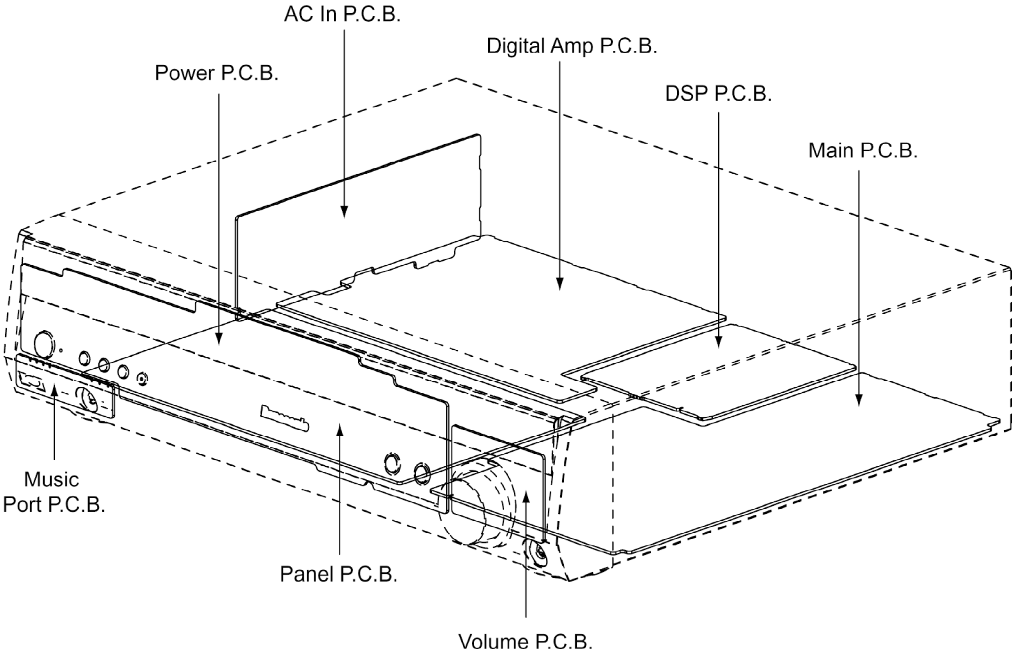
8.2. Disassembly Flow Chart

The following chart is the procedure for disassembling the casing and inside parts for internal inspection when carrying out the servicing.

To assemble the unit, reverse the steps shown in the chart as below.

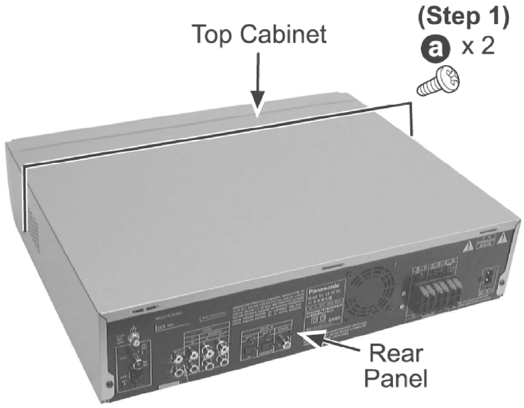

Top cabinet
Rear Panel
DSP P.C.B.
Front Panel
AC In P.C.B.
Main P.C.B.
Power P.C.B.
Digital Amp P.C.B.
Panel P.C.B.
Music Port P.C.B.
Volume P.C.B.

8.3. Main Parts Location

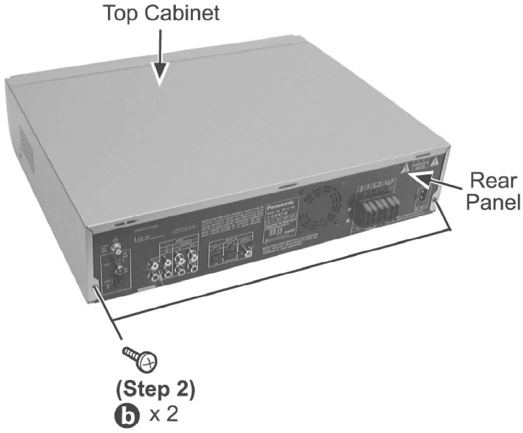

AC In P.C.B.
Digital Amp P.C.B.
Power P.C.B.
DSP P.C.B.
Main P.C.B.
Music Port P.C.B.
Panel P.C.B.
Volume P.C.B.

8.4. Disassembly of Top Cabinet

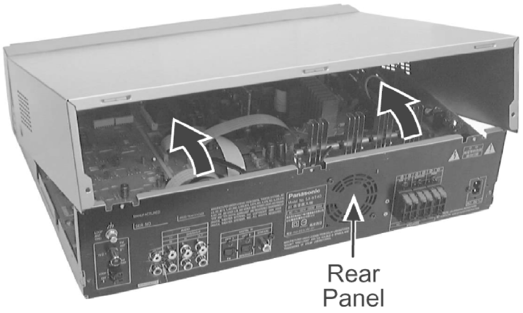
Step 1: Remove 2 screws.


Top Cabinet
(Step 1)
a x 2
Rear Panel

Step 2 : Remove 2 screws at rear panel.


Top Cabinet
Rear Panel
(Step 2)
b x 2

Step 3 : Open and lift up the top cabinet as arrow shown.

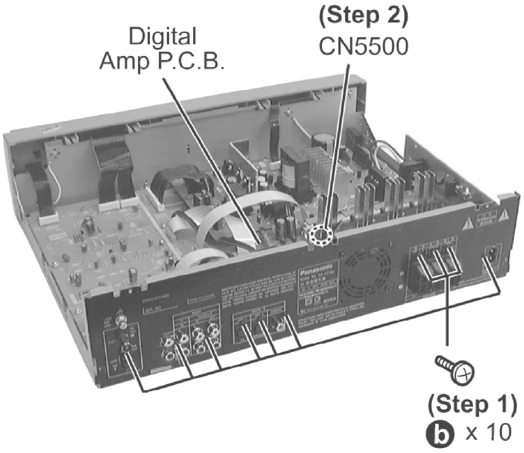


8.5. Disassembly of Rear Panel

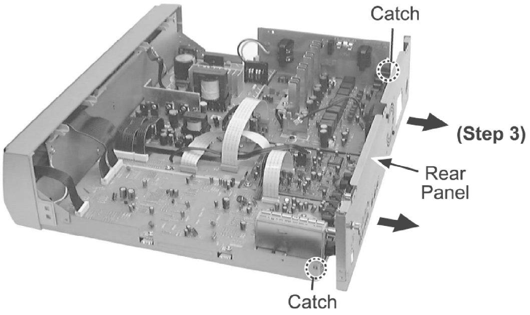
- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 10 screws at rear panel.

Step 2 : Detach wire connector (CN5500) at Digital Amp P.C.B..


Digital
Amp P.C.B.
(Step 2)
CN5500
(Step 1)
b x 10

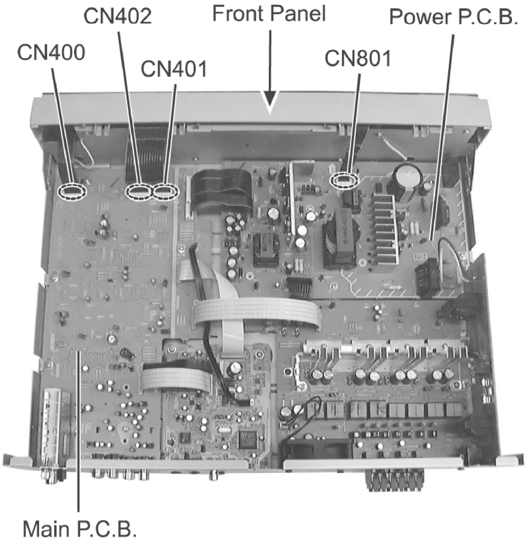
Step 3 : Release 2 catches and pull the rear panel backwards as the arrow shown.


Catch
(Step 3)
Rear
Panel
Catch

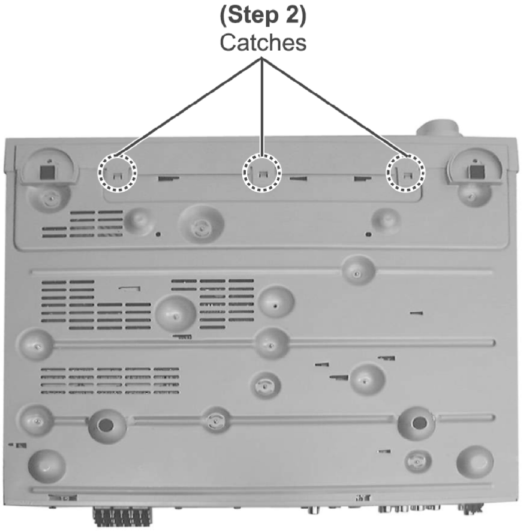
8.6. Disassembly of Front Panel

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

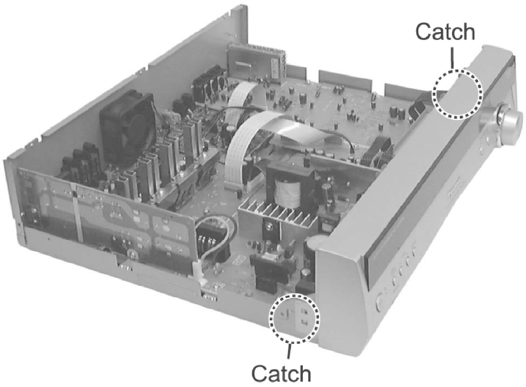
Step 1 : Detach the wire connections (CN400, CN402 & CN401) at Main P.C.B. and (CN801) at Power P.C.B..


CN402
Front Panel
Power P.C.B.
CN400
CN401
CN801
Main P.C.B.

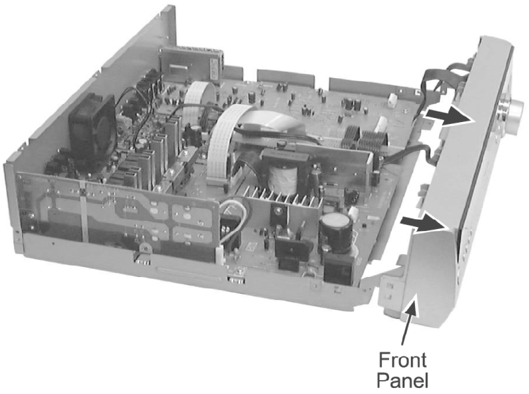
Step 2 : Release 3 catches.


(Step 2)
Catches

Step 3 : Release 2 catches.


Catch
Catch

Step 4 : Push forward front panel as the arrow shown.

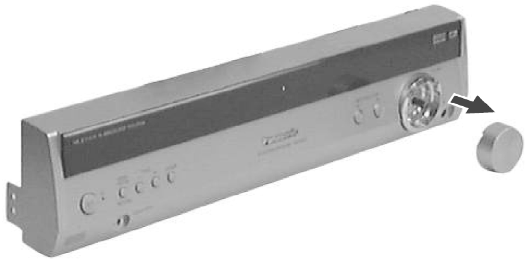

Front
Panel

8.7. Disassembly of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

- Follow the (Step 1) - (Step 4) of item 8.6. - Disassembly of Front Panel

Step 1 : Remove the volume knob as picture shown.

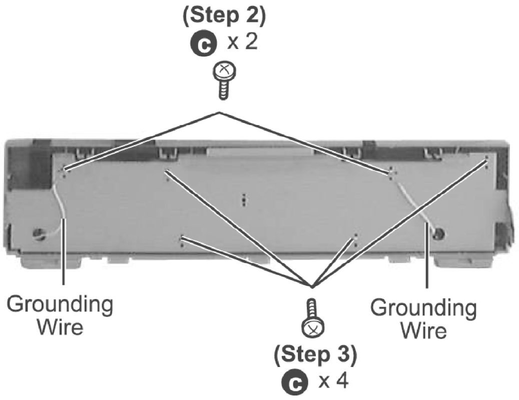


Step 2 : Remove 2 screws grounding wires as picture shown.

Caution:

Remember to screw the 2 grounding wires during assembly.

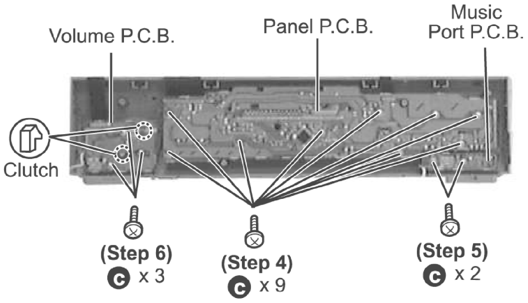
Step 3 : Remove 4 screws as picture shown.


(Step 2)
C x 2
Grounding
Wire
Grounding
Wire
(Step 3)
C x 4

- Disassembly of Panel P.C.B. and Music Port P.C.B.

Step 4 : Remove 9 screws at Panel P.C.B..

Step 5 : Remove 2 screws at Music Port P.C.B..


Volume P.C.B.
Panel P.C.B.
Music Port P.C.B.
Clutch
(Step 6)
c x 3
(Step 4)
c x 9
(Step 5)
c x 2

- Disassembly of Volume P.C.B.

Step 6 : Remove 3 screws at Volume P.C.B..

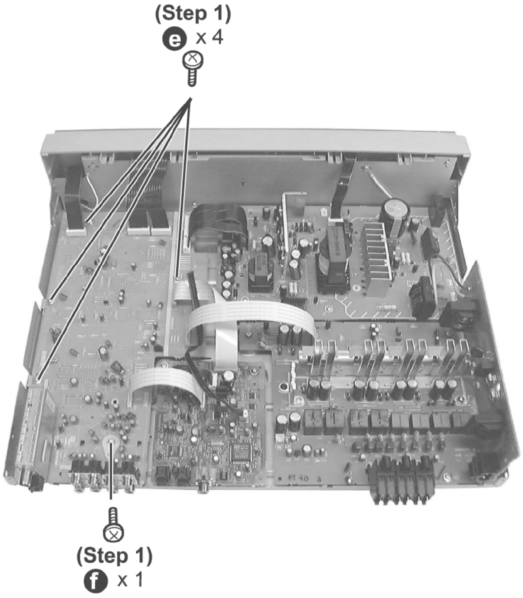
Step 7 : Release 2 clutchs.

8.8. Disassembly of Main P.C.B.

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

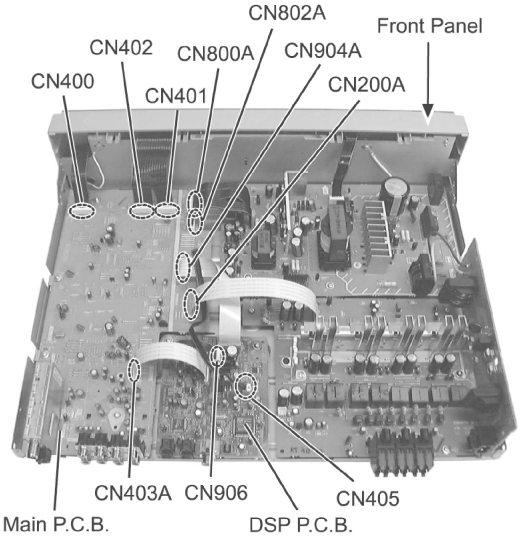
- Follow the (Step 1) - (Step 3) of item 8.5. - Disassembly of Rear Panel

Step 1 : Remove 5 screws at Main P.C.B..

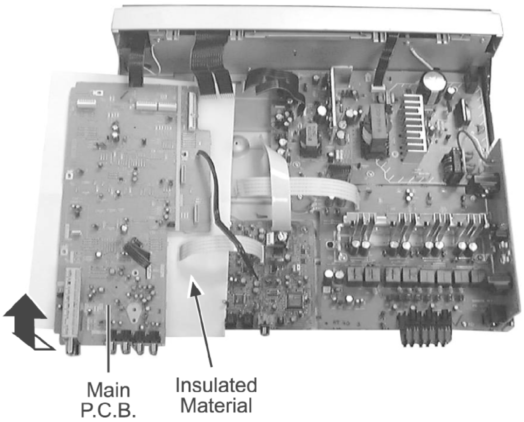

(Step 1)
e x 4
(Step 1)
f x 1

Step 2 : Disconnect FFC cables (CN400, CN402, CN401, CN800A, CN802A, CN904A, CN200A and CN403A) at Main P.C.B. .

Step 3 : Disconnect 2 connectors (CN906 & CN405) at DSP P.C.B..


CN802A
Front Panel
CN402
CN800A
CN904A
CN400
CN401
CN200A
CN403A
CN906
CN405
Main P.C.B.
DSP P.C.B.

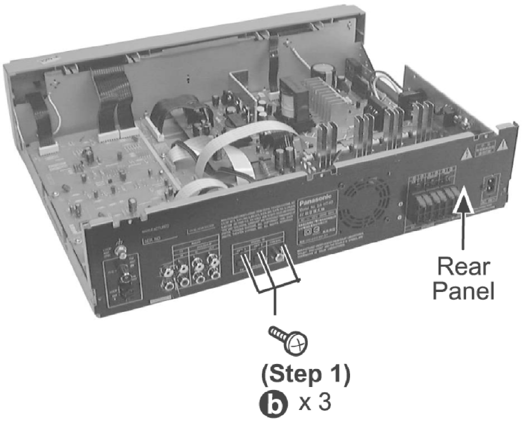
Step 4 : Lift up and remove the Main P.C.B. as picture shown.


Main P.C.B.
Insulated Material

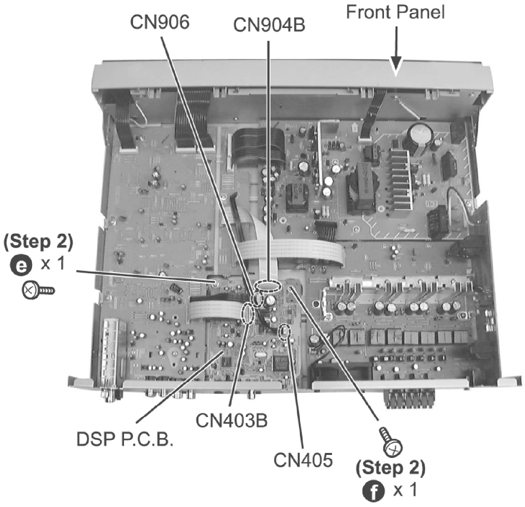
8.9. Disassembly of DSP P.C.B.

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 3 screws at rear panel.

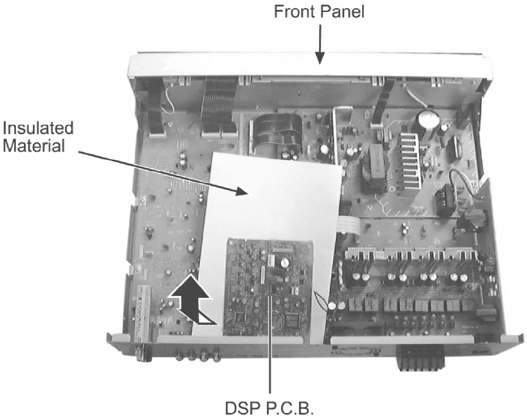

Rear Panel
(Step 1)
ⓑ x 3

Step 2 : Remove 2 screws at DSP P.C.B..


CN906
CN904B
Front Panel
(Step 2)
e x 1
DSP P.C.B.
CN403B
CN405
(Step 2)
f x 1

Step 3 : Disconnect 4 connectors (CN906, CN904B, CN405 &CN403B) at DSP P.C.B..

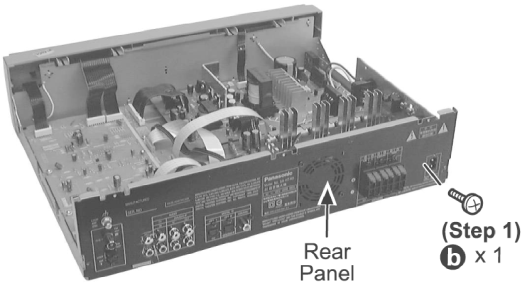
Step 4 : Lift up and remove the DSP P.C.B. as the arrow shown.


Front Panel
Insulated Material
DSP P.C.B.

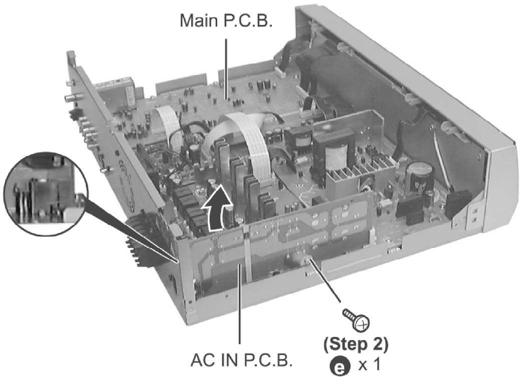
8.10. Disassembly of AC In P.C.B.

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

Step 1 : Remove 1 screw at rear panel.


Rear Panel
(Step 1)
b x 1

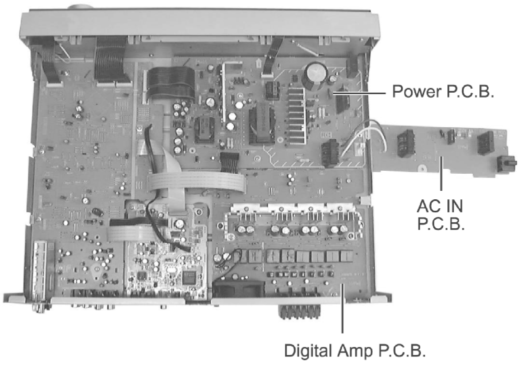
Step 2 : Remove 1 screw at AC In P.C.B..



Caution:

Remember to use tie wraps to tie red/ white wires between (AC In P.C.B. and Power P.C.B.) to the side of AC In P.C.B. after repair or troubleshooting.

Step 3 : Lift up and place AC In P.C.B. as picture shown.



Note:

Caution when lift up the AC In P.C.B..

8.11. Disassembly of Power P.C.B.

- Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet

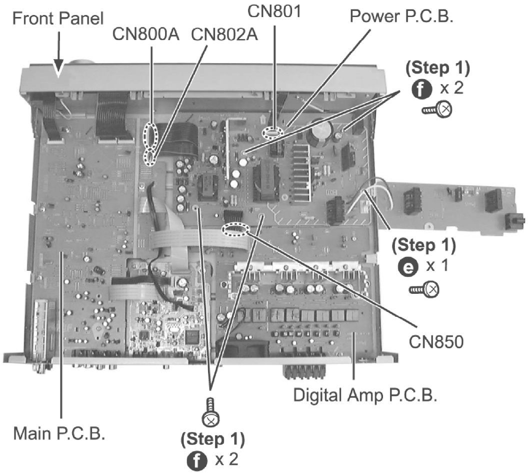
- Follow the (Step 1) - (Step 3) of item 8.10. - Disassembly of AC In P.C.B.

Step 1 : Remove 5 screws at Power P.C.B..

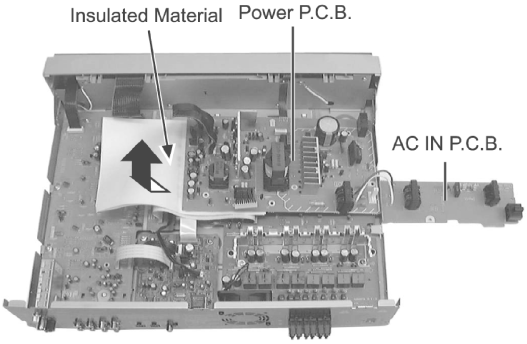
Step 2 : Disconnect 2 connectors (CN800A & CN802A) at Main P.C.B..

Step 3 : Disconnect 1 connector (CN801) at Power P.C.B..

Step 4 : Disconnect 1 connector (CN850) at Digital Amp P.C.B..

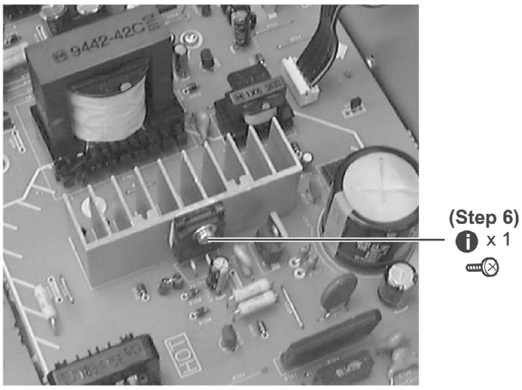

Front Panel
CN800A
CN802A
CN801
Power P.C.B.
(Step 1)
f x 2
(Step 1)
e x 1
CN850
Digital Amp P.C.B.
Main P.C.B.
(Step 1)
f x 2

Step 5 : Lift up the Power P.C.B. as picture shown.

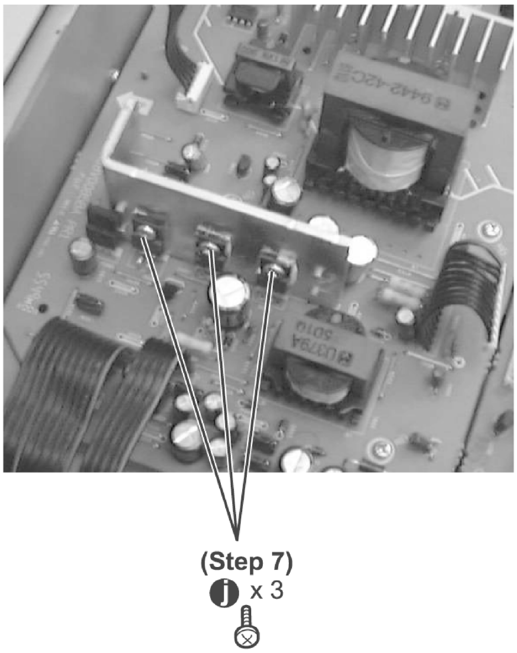

Insulated Material
Power P.C.B.
AC IN P.C.B.

- Replacement of the Power Supply IC and Diode

Step 6 : Remove 1 screw (from IC701).

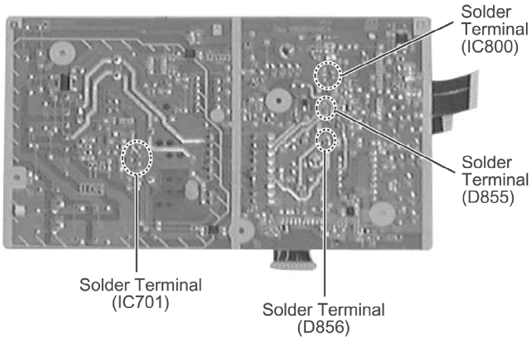


Step 7 : Remove 3 screws (from IC800, D855 and D856).



Step 8 : Flip over the Power P.C.B..

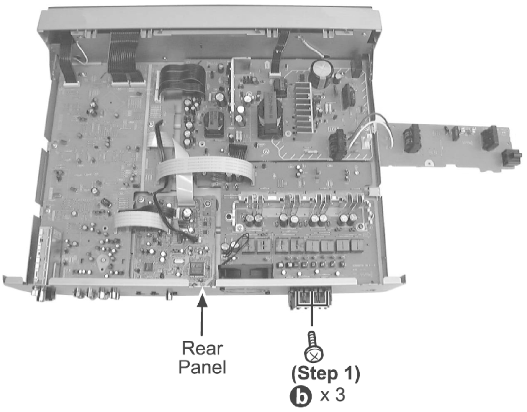
Step 9 : Desolder the terminal to replace the components.


Solder Terminal (IC800)
Solder Terminal (D855)
Solder Terminal (IC701)
Solder Terminal (D856)

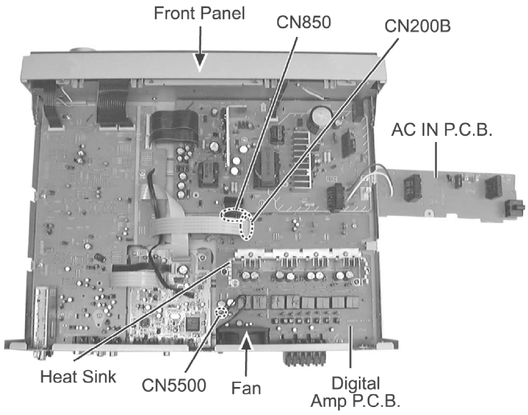
8.12. Disassembly of Digital Amp P.C.B.

- **Follow the (Step 1) - (Step 3) of item 8.4. - Disassembly of Top Cabinet**
- **Follow the (Step 1) - (Step 3) of item 8.10. - Disassembly of AC In P.C.B.**

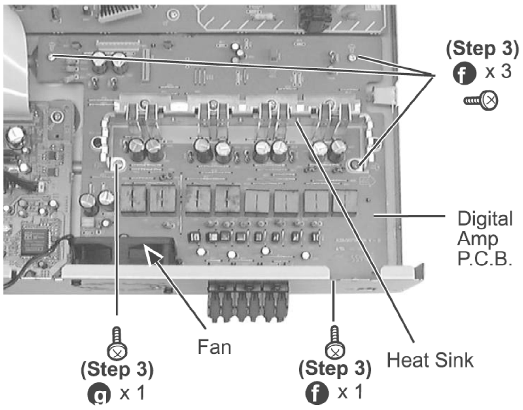
Step 1 : Remove 3 screws at rear panel.


Rear Panel
(Step 1)
b x 3

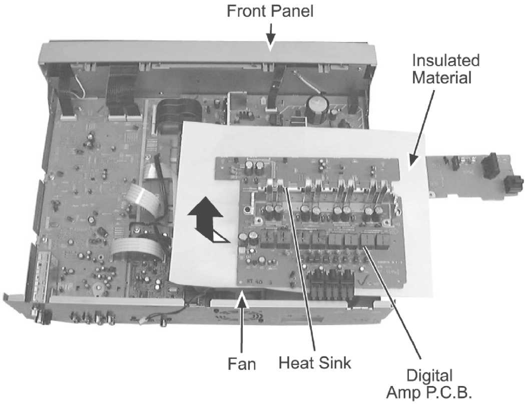
Step 2 : Detach FFC cables (CN5500, CN200B & CN850) at Digital Amp P.C.B..


Front Panel
CN850
CN200B
AC IN P.C.B.
Heat Sink
CN5500
Fan
Digital Amp P.C.B.

Step 3 : Remove 5 screws at Digital Amp P.C.B..

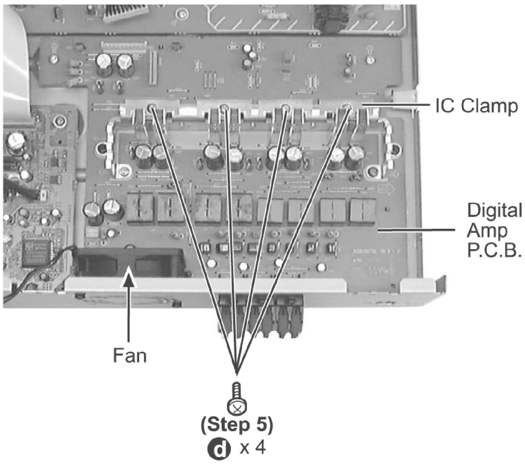

(Step 3)
f x 3
Digital Amp P.C.B.
(Step 3)
g x 1
Fan
(Step 3)
f x 1
Heat Sink

Step 4 : Lift up and remove the Digital Amp P.C.B. as arrow shown.


Front Panel
Insulated Material
Fan
Heat Sink
Digital Amp P.C.B.

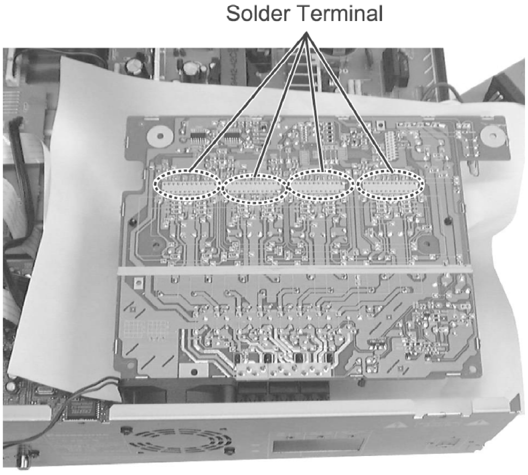
- Replacement of the Power Amp IC

Step 5 : Remove 4 screws at the IC Clamp.


IC Clamp
Digital Amp P.C.B.
Fan
(Step 5)
d x 4

Step 6 : Flip over Digital Amp P.C.B..

Step 7 : Desolder the terminal to replace the components.


Solder Terminal

9. Service Position

Note:

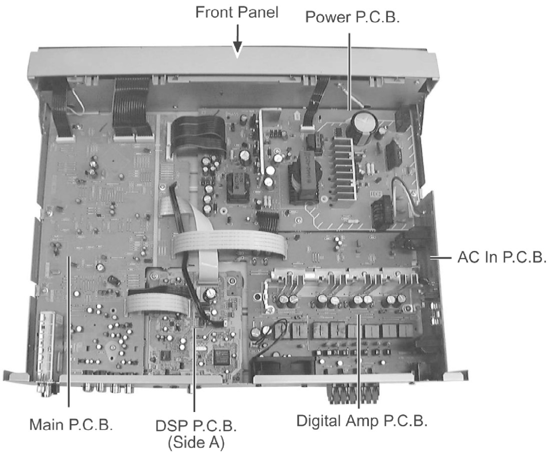
Checking of all Major P.C.B. (Main P.C.B., DSP P.C.B., AC In P.C.B., Digital Amp P.C.B., Power P.C.B., Panel P.C.B., Music Port P.C.B. & Volume P.C.B.) can be carried out using below procedures.

For the disassembling procedure, see Section 8.

9.1. Checking the DSP P.C.B. (Side A) & AC In P.C.B.

1. Remove Top Cabinet

- Remove 2 screws at the side cabinet.
- Remove 2 screws at the rear cabinet.
- Remove top cabinet.


Front Panel
Power P.C.B.
AC In P.C.B.
Main P.C.B.
DSP P.C.B. (Side A)
Digital Amp P.C.B.

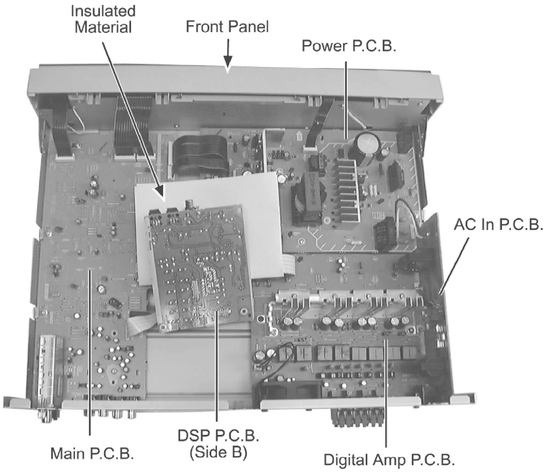
9.2. Checking the DSP P.C.B. (Side B)

1. Remove Top Cabinet

- Remove 2 screws at the side cabinet.
- Remove 2 screws at the rear cabinet.
- Remove top cabinet.

2. Flip Over

- Flip over the DSP P.C.B..


Insulated Material
Front Panel
Power P.C.B.
AC In P.C.B.
Main P.C.B.
DSP P.C.B. (Side B)
Digital Amp P.C.B.

9.3. Checking the Panel P.C.B., Music Port P.C.B. and Volume P.C.B.

1. Remove Top Cabinet

- Remove 2 screws at the side cabinet.
- Remove 2 screws at the rear cabinet.
- Remove top cabinet.

2. Disassemble of Front Panel

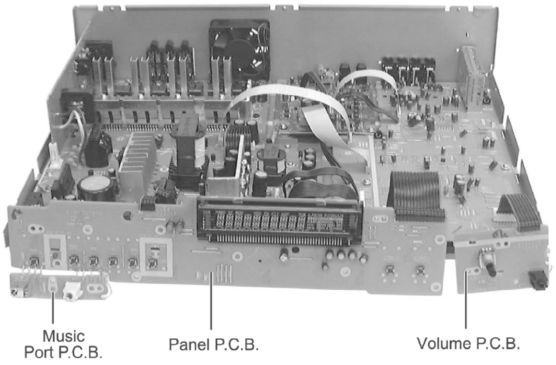
- Detach 4 wire connections CN400, CN402, CN401 & CN801.
- Release 3 catches at the bottom of the unit.
- Release 2 claws.

3. Disassemble of Panel P.C.B., Music Port P.C.B. & Volume P.C.B.

- Remove the volume knob.
- Remove 6 screws.
- Remove 9 screws at Panel P.C.B..
- Remove 2 screws at Music Port P.C.B..
- Remove 3 screws at Volume P.C.B..

4. Connect Panel P.C.B. & Volume P.C.B.

- Connect 7P cable between JW400 to CN400.
- Connect 15P cable between JW401 to (CN402 & CN401).
- Connect 5P cable between JW801 to CN801.



9.4. Checking the Main P.C.B., Power P.C.B. & Digital Amp P.C.B.

1. Remove Top Cabinet

Remove 2 screws at the side cabinet.

Remove 2 screws at the rear cabinet.

Remove top cabinet.

2. Remove Rear Panel

Remove 10 screws at rear panel, detach wire connector CN5500.

Remove 2 claws.

3. Disassemble of Main P.C.B.

Remove 5 screws.

4. Disassemble of DSP P.C.B.

Remove 2 screws.

5. Disassemble of AC In P.C.B.

Remove 1 screw.

Lift up AC In P.C.B..

6. Disassemble of Power P.C.B.

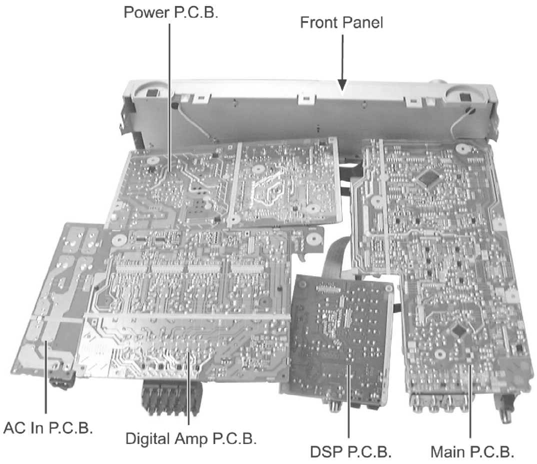
Remove 5 screws.

7. Disassemble of Digital Amp P.C.B.

Remove 5 screws.

8. Flip Over

Flip all the PCBs over. (See as shown in picture below.)



10. Voltage Measurement and Waveform Chart

Notes:

- **Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (higher-impedance) with the chassis taken as standard.**
  Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- **Circuit voltage and waveform described herein shall be regarded as reference information when probing defect point, because it may differ from an actual measuring value due to difference of Measuring instrument and its measuring condition and product itself.**

10.1. Voltage Measurement

10.1.1. DSP P.C.B.

10.1.2. Main P.C.B.

10.1.3. Power P.C.B.

10.1.4. Panel P.C.B.

10.1.5. Digital Amp P.C.B.

10.2. Waveform Chart

11. Wiring Diagrams

12. Block Diagram

13. Schematic Diagram

13.1. Notes of Schematic Diagram

(All schematic diagrams may be modified at any time with the development of the new technology)

Note:

S401
: Power switch

S402
: < I/P Select switch

S403
: I/P Select > switch

S404
: Enter switch

S406
: Menu/-Setup switch

S407
: Tune_down switch

S408
: Tune_up switch

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise

some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

- Importance safety notice :

  Components identified by ⚠ mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminium foil.
- Put a conductive mat on the work table.
- Ground the soldering iron.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

13.2. (A) DSP Circuit

13.3. (B) Main Circuit

13.4. (C) Digital Amp Circuit

13.5. (D) Panel Circuit, (E) Volume Circuit & (F) Music Port Circuit

13.6. (G) Power Circuit & (H) AC In Circuit

14. Printed Circuit Board Diagram

Note: Circuit board diagrams may be modified at any time with the development of new technology.

14.1. (A) DSP P.C.B.

14.2. (B) Main P.C.B.

14.3. (C) Digital Amp P.C.B.

14.4. (D) Panel P.C.B., (E) Volume P.C.B. & (F) Music Port P.C.B.

14.5. (G) Power P.C.B.

14.6. (H) AC In P.C.B.

15. Illustrations of IC’s, Transistors & Diodes

16. Terminal Functions of Integrated Circuits

16.1. IC301 (C2CBYY000152): Microprocessor

Pin No.	Terminal Name	I/O	Function
1	RF_PCONT	O	Wireless Module PCONT
2	RF_DET	I	Wireless Module Detection
3	RF_LINK	I	Wireless Module Link Detection
4	RF_CHANGE	O	Wireless Module Role Change (TX ← → RX)
5	VOL_CLK	O	Volume + Selector control
6	VOL_DT	O	Volume + Selector control
7	FHOP(OSC_SW)	-	Osc switching for Digital Amplifier
8	BYTE	-	GND
9	CNVss	I	CNVss
10	N.C.	-	No Connection
11	N.C.	-	No Connection
12	RESET	I	Reset input pin for active “L”
13	XOUT	-	Clock output [10.00MHz]
14	VSS	-	GND
15	XIN	-	Clock input [10.00MHz]
16	VCC	-	Power source [5v]
17	NMI	-	Pull-up resistance
18	N.C.	-	No Connection
19	REMOTE	I/O	Remote Control signal
20	AC_SYNC	-	Power Failure Detection
21	MUTE_ALL	O	MUTE all Channel
22	MUTE_S/C	O	MUTE Surround Channel
23	MUTE_WIRELESS	O	MUTE Wireless Channel

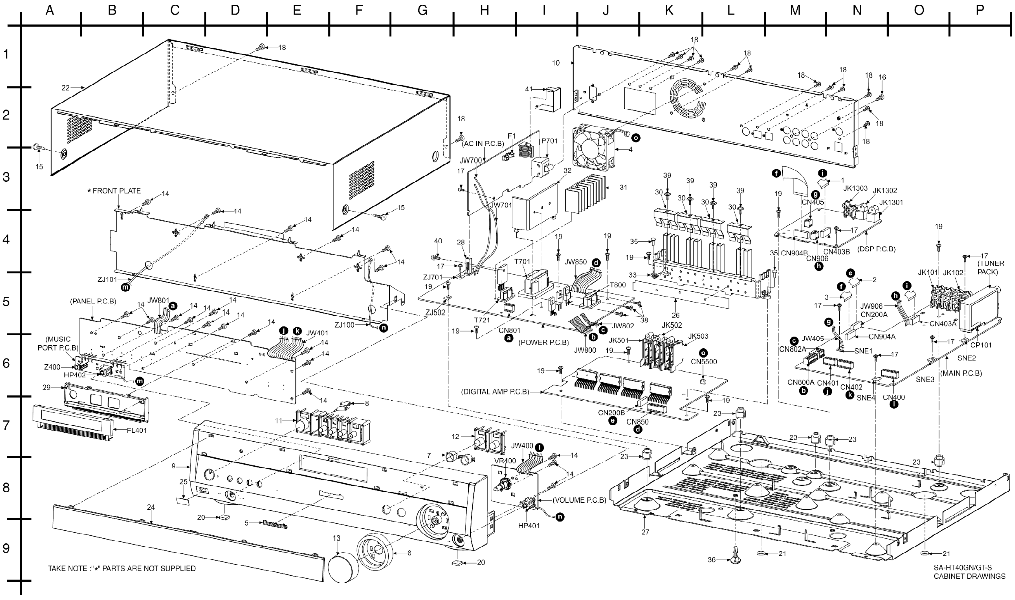
Pin No.	Terminal Name	I/O	Function
24	TUNER	I	New Tuner Stereo Detect
25	TUNER	I	New Tuner SD Detect
26	N.C.	-	No Connection
27	N.C.	-	No Connection
28	AMP_POWER	O	Amplifier Power Shut Down
29	TUNER_CLK	I/O	New Tuner (12C Clock)
30	TUNER_DT	I	New Tuner (12C Data)
31	CS49300_CDIN	O	DSP/CODEC serial Data IN (uP-->DSP/ CODEC)
32	CS49300_SCDOUT	I	DSP serial DATA OUT (DSP-->uP)
33	CS49300_CCLK	O	DSP/CODEC Clock
34	CS49300_CS	O	DSP Chip Select
35	CS49300_RESET	O	DSP Reset
36	RDS_DATA	I	RDS: DATA
37	RDS_CLK	I	RDS: Clock
38	N.C.	-	No Connection
39	N.C.	-	No Connection
40	N.C.	-	No Connection
41	N.C.	-	No Connection
42	N.C.	-	No Connection
43	N.C.	-	No Connection
44	N.C.	-	No Connection
45	N.C.	-	No Connection
46	N.C.	-	No Connection
47	N.C.	-	No Connection
48	N.C.	-	No Connection
49	N.C.	-	No Connection
50	N.C.	-	No Connection
51	N.C.	-	No Connection
52	N.C.	-	No Connection
53	N.C.	-	No Connection
54	N.C.	-	No Connection
55	N.C.	-	No Connection
56	N.C.	-	No Connection
57	N.C.	-	No Connection
58	N.C.	-	No Connection

Pin No.	Terminal Name	I/O	Function
59	N.C.	-	No Connection
60	N.C.	-	No Connection
61	N.C.	-	No Connection
62	Vcc2	-	Vcc2
63	N.C.	-	No Connection
64	Vss	-	Vss
65	N.C.	-	No Connection
66	N.C.	-	No Connection
67	SURR_M_LED	O	Led for SURROUND MUSIC mode
68	FLD_CS	O	FLD Dr CS
69	FLD_CLK	O	FLD Dr Serial Clock
70	FLD_D1	O	FLD Dr serial data output
71	VOL_ENCD_A	I	Volume Encoder Input A
72	VOL_ENCD_B	I	Volume Encoder Input B
73	HP_SWITCH	I	Detect H/Phone Connection
74	CS49300_INTREQ	I	DSP Interrupt Request
75	CS42516_INT	I	CODEC interrupt Request
76	CS42516_CS	I/O	CODEC Chip Select
77	CS42516_CDOUT	O	CODEC Data OUT
78	CS42516_RESET	O	CODEC RESET
79	FMPORT_SW	I	Front Music Port Detect
80	POWER	I	Power Key Detection
81	KEY1	I	Key Input1
82	KEY2	I	Key Input2
83	N.C.	-	No Connection
84	N.C.	-	No Connection
85	N.C.	-	No Connection
86	INIT2	I	INITIAL SETTING 2
87	INIT1	I	INITIAL SETTING 1
88	INIT_OUT	O	INITIAL SETTING OUTPUT
89	BEAT_PROOF	I/O	Beat Proof Control
90	N.C.	-	No Connection

Pin No.	Terminal Name	I/O	Function
91	HP_MUTE	O	MUTE for Headphones
92	PCONT	O	Power Relay Control
93	FAN_LOCK	I	FAN LOCK Detection
94	DC_DET	I	Power Amp Failure
95	S_DET	I	Power supply Short detection
96	Avss	-	Avss
97	FILTER	-	Filter setting
98	VREF	-	Reference power supply of the A/D converter [5v]
99	Avcc	-	Avcc
100	M_PORTDET	I	Wireless Module MPORT detection

17. Exploded Views

17.1. Cabinet Parts Location


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
* FRONT PLATE
(PANEL P.C.B)
(MUSIC PORT P.C.B)
(AC IN P.C.B)
(POWER P.C.B)
(DIGITAL AMP P.C.B)
(DSP P.C.B)
(MAIN P.C.B)
(TUNER PACK)
(VOLUME P.C.B)
ZJ101
ZJ100
ZJ701
ZJ502
JW801
JW401
JW400
JW700
JW701
JW850
JW802
JW800
JW405
JW906
Z400
HP402
HP401
FL401
VR400
F1
P701
T701
T721
T800
CN801
CN5500
CN200B
CN850
CN405
CN904B
CN906
CN403B
CN200A
CN403A
CN904A
CN802A
CN800A
CN401
CN402
CN400
JK501
JK502
JK503
JK1301
JK1302
JK1303
JK101
JK102
CP101
SNE1
SNE2
SNE3
SNE4
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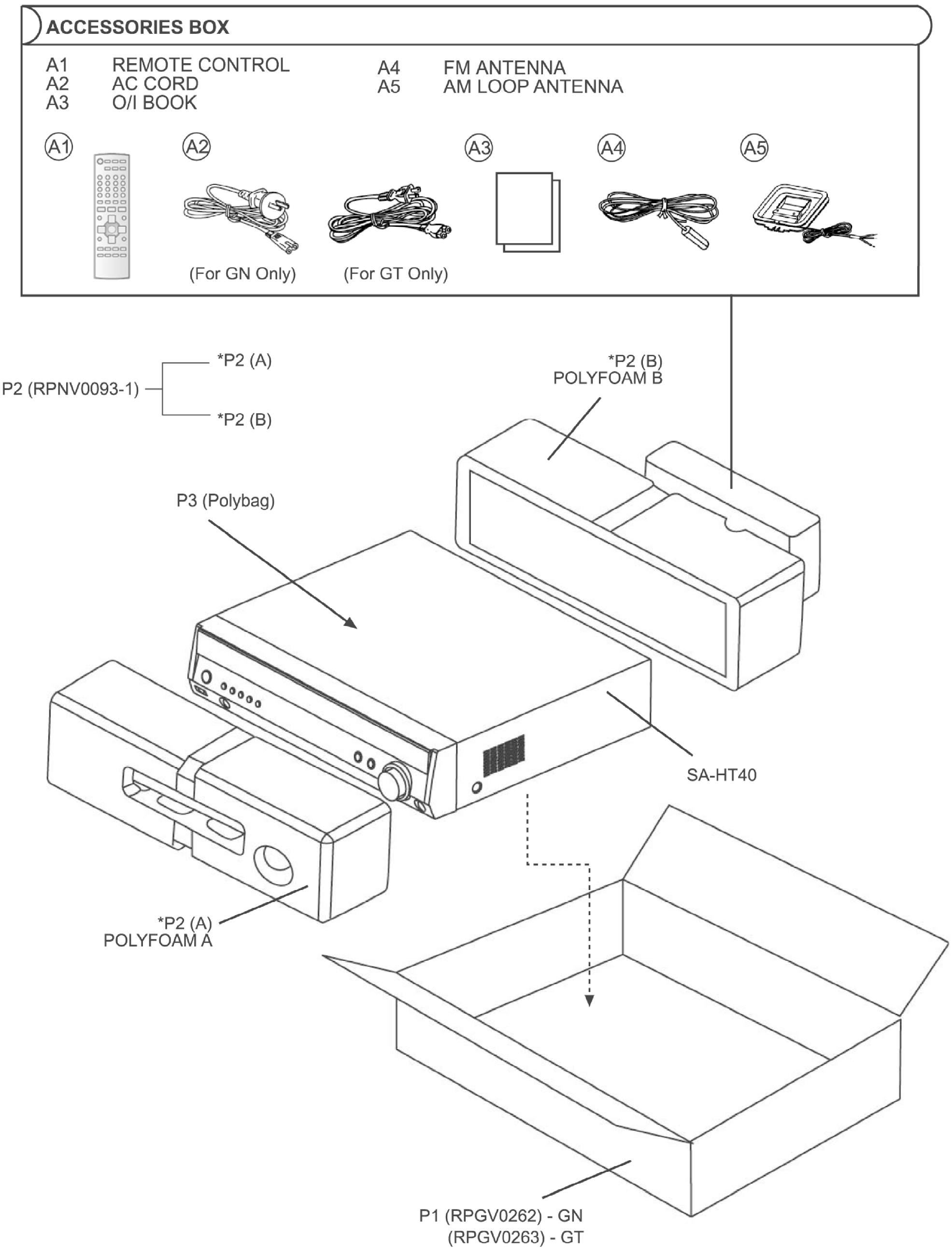
TAKE NOTE :"*" PARTS ARE NOT SUPPLIED

SA-HT40GN/GT-S
CABINET DRAWINGS

17.2. Packaging


ACCESSORIES BOX
A1 REMOTE CONTROL
A2 AC CORD
A3 O/I BOOK
A4 FM ANTENNA
A5 AM LOOP ANTENNA
A1
A2
A3
A4
A5
(For GN Only)
(For GT Only)
P2 (RPNV0093-1)
*P2 (A)
*P2 (B)
*P2 (B)
POLYFOAM B
P3 (Polybag)
SA-HT40
*P2 (A)
POLYFOAM A
P1 (RPGV0262) - GN
(RPGV0263) - GT

18. Replacement Parts List

Notes:

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardent (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.

When replacing any of these components, be sure to use only

manufacturer’s specified parts shown in the parts list.

- **The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour) Parts without these indications can be used for all areas.**
- **Capacitor values are in microfarads (μ F) unless specified otherwise, P= Pico-farads (pF), F= Farads.**
- **Resistance values are in ohms, unless specified otherwise, 1K= 1,000 (OHM).**
- **The marking (RTL) indicates that the Retention Time is limited for this items. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of a availability is dependent on the type of assembly, and in accordance with the laws governing part and product retention. After the end of this period, the assembly will no longer be available.**
- **[M] Indicates in the Remarks columns indicates parts supplied by PAVCSG.**
- **Reference for O/I book languages are as follows:**

Ar :	**Arabic**	**Du :**	**Dutch**	**It :**	**Italian**	**Sp :**	**Spanish**
Cf :	**Canadian French**	**En :**	**English**	**Ko :**	**Korean**	**Sw :**	**Swedish**
Cz :	**Czech**	**Fr :**	**French**	**Po :**	**Polish**	**Co :**	**Traditio Chinese**
Da :	**Danish**	**Ge :**	**German**	**Ru :**	**Russian**	**Cn :**	**Simplifi Chinese**
Pe :	**Persian**	**Ur:**	**Ukraine**				

Ref. No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS	
1	REEV0092	16P FFC (DSP)	[M]
2	REEV0093	18P FFC (DAMP)	[M]
3	REEV0094	18P FFC (DSP)	[M]
4	REM0094	COOLING FAN	[M]
5	RGB0164-S	PANASONIC BADGE	[M]
6	RGKV0135-S	VOLUME RING	[M]
7	RGKV0147-S	INPUT SELECTOR ORN	[M]
8	RGLV0063-Q1	LED LIGHT GUIDE	[M]
9	RGPV0078B-S2	FRONT PANEL	[M]
10	RGRV0043D-A	REAR PANEL	[M]GN
10	RGRV0043D-B	REAR PANEL	[M]GT
11	RGUV0132A-S	FUNCTION BUTTON	[M]
12	RGUV0133-S	INPUT SELECTOR BTN	[M]
13	RGWV0038-S1	VOLUME KNOB	[M]
14	RHD26046-L	SCREW	[M]
15	RHD30007-1SJ	SCREW	[M]
16	RHD30070	EARTH TERMINAL SCREW	[M]
17	RHD30111-3	SCREW	[M]
18	RHD30119-K	SCREW	[M]
19	RHDV30006	SCREW	[M]
20	RHGV0008	LEG CUSHION	[M]
21	RKAV0005-K	LEG CUSHION	[M]
22	RKMV0052-S2	TOP CABINET	[M]
23	RKQV0001	PCB SPACER	[M]
24	RKWV0055-R	FL WINDOW	[M]
25	RKWV0057-S	REMOTE SENSOR WINDOW	[M]
26	RMGV0029	SILICON PAD	[M]
27	RMKV0041A-1	CHASSIS FRAME	[M]
28	RMN0203	PCB HOLDER	[M]GT
29	RMNV0063-K	FL FOLDER	[M]
30	RMQV0052	IC CLAMP	[M]
31	RMY0316	POWER HEAT SINK	[M]
32	RXXV0020	HEATSINK UNIT	[M]
33	RXXV0044	HEAT SINK UNIT	[M]
35	SHR411	PLASTIC RIVET	[M]
36	RMNV0076	PCB SPACER	[M]
38	XTB3+8JFJ	SCREW	[M]
39	XTW3+8TFJ	SCREW	[M]
40	XYN3+F10FJ	SCREW	[M]
41	RSC0777	SHIELD PLATE	[M]
		PRINTED CIRCUIT BOARDS	
	REPV0076A-T	DSP P.C.B. (SIDE A & B)	[M] (RTL)
	REPV0078C-M	MAIN P.C.B.	[M] (RTL)
	REPV0077C-T	DIGITAL AMP P.C.B.	[M] (RTL)
	REPV0078C-M	PANEL P.C.B.	[M] (RTL)
	REPV0078C-M	VOLUME P.C.B.	[M] (RTL)
	REPV0078C-M	MUSIC PORT P.C.B.	[M] (RTL)
	REPV0085B-P	POWER P.C.B.	[M] (RTL) (GN)
	REPV0085D-P	POWER P.C.B.	[M] (RTL) (GT)
	REPV0085B-P	AC IN P.C.B.	[M] (RTL) (GN)

Ref. No.	Part No.	Part Name & Description	Remarks
	REPV0085D-P	AC IN P.C.B.	[M] (RTL) (GT)
		INTEGRATED CIRCUITS	
IC150	C1BB00001134	IC VOLUME ENCODER	[M]
IC151	C0ABBB000297	IC DUAL OP-AMP	[M]
IC152	C0CBAHG00011	IC VOLTAGE REGULATOR	[M]
IC200	C0ABBB000297	IC DUAL OP-AMP	[M]
IC201	C0ABBB000297	IC DUAL OP-AMP	[M]
IC202	C0ABBB000297	IC DUAL OP-AMP	[M]
IC203	C0ABBB000297	IC DUAL OP-AMP	[M]
IC204	C0ABBB000297	IC DUAL OP-AMP	[M]
IC205	C0ABBB000297	IC DUAL OP-AMP	[M]
IC207	C0ABBB000297	IC DUAL OP-AMP	[M]
IC208	C0ABBB000297	IC DUAL OP-AMP	[M]
IC301	C2CBYY000152	IC MICRO-PROCESSOR	[M]
IC401	C0HBB0000061	IC FL DRIVER	[M]
IC551	C1BA00000407	IC POWER AMP	[M]
IC552	C1BA00000407	IC POWER AMP	[M]
IC553	C1BA00000407	IC POWER AMP	[M]
IC554	C1BA00000407	IC POWER AMP	[M]
IC701	C0DAAMH00004	IC POWER SUPPLY	[M]GT
IC701	C5HABZZ00125	IC POWER SUPPLY	[M]GN
IC721	MIP2C10MSSCF	IC POWER SUPPLY	[M]
IC800	C0DAAYY00026	IC POWER SUPPLY	[M]
IC801	C0DAEMB00003	IC POWER SUPPLY	[M]
IC802	C0CBAEG00007	IC VOLTAGE REGULATOR	[M]
IC850	C0DAEMB00003	IC POWER SUPPLY	[M]
IC880	C0ABBB000342	IC DUAL OP-AMP	[M]
IC1001	C2HBZZ000015	IC AC3/DTS	[M]
IC1003	C0JBAB000633	IC LOGIC INVERTER	[M]
IC1004	C0JBAZ002160	IC LOGIC	[M]
IC1005	C0JBAZ002161	IC LOGIC	[M]
IC1101	C0FBZK000013	IC CODEC	[M]
IC1201	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1202	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1203	C0ABBB000297	IC DUAL OP-AMP	[M]
IC1701	C0CBAAG00004	IC REGULATOR	[M]
IC5400	C0JBAB000011	IC LOGIC	[M]
IC5401	C0JBAF000654	IC LOGIC	[M]
		TRANSISTORS	
Q200	B1GDCFJJ0008	TRANSISTOR	[M]
Q201	B1GDCFJJ0008	TRANSISTOR	[M]
Q202	B1GBCFJJ0007	TRANSISTOR	[M]
Q203	B1GBCFJJ0007	TRANSISTOR	[M]
Q204	B1ABDC000010	TRANSISTOR	[M]
Q205	B1ABDC000010	TRANSISTOR	[M]
Q206	B1ABDC000010	TRANSISTOR	[M]
Q207	B1ABDC000010	TRANSISTOR	[M]
Q208	B1GDCFJJ0008	TRANSISTOR	[M]
Q209	B1GBCFJJ0007	TRANSISTOR	[M]
Q211	B1ABDC000010	TRANSISTOR	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
Q212	**B1ABDC000010**	**TRANSISTOR**	**[M]**
Q213	**B1ABDC000010**	**TRANSISTOR**	**[M]**
Q214	**2SD1915FTA**	**TRANSISTOR**	**[M]**
Q215	**2SD1915FTA**	**TRANSISTOR**	**[M]**
Q216	**B1ABDC000010**	**TRANSISTOR**	**[M]**
Q301	**B1GACFJN0007**	**TRANSISTOR**	**[M]**
Q302	**B1ABDC000010**	**TRANSISTOR**	**[M]**
Q303	**B1GBCFJA0028**	**TRANSISTOR**	**[M]**
Q401	**B1GDCFJJ0008**	**TRANSISTOR**	**[M]**
Q403	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
Q404	**B1GDCFJJ0008**	**TRANSISTOR**	**[M]**
Q591	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q592	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q701	**2SC3940ARA**	**TRANSISTOR**	**[M]**
Q723	**B1AAGC000006**	**TRANSISTOR**	**[M]**
Q800	**B1ADCF000001**	**TRANSISTOR**	**[M]**
Q802	**2SB1548PQAU**	**TRANSISTOR**	**[M]**
Q803	**B1BACG000023**	**TRANSISTOR**	**[M]**
Q804	**B1BACG000023**	**TRANSISTOR**	**[M]**
Q850	**2SB0621AHA**	**TRANSISTOR**	**[M]**
Q880	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q881	**B1ADCF000001**	**TRANSISTOR**	**[M]**
Q882	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q1001	**B1GDCFJN0001**	**TRANSISTOR**	**[M]**
Q1701	**KTC3199GRTA**	**TRANSISTOR**	**[M]**
Q1702	**B1BACG000023**	**TRANSISTOR**	**[M]**
Q1703	**B1BACG000023**	**TRANSISTOR**	**[M]**
Q5001	**B1GDCFJJ0008**	**TRANSISTOR**	**[M]**
Q5002	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
Q5003	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
Q5004	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
Q5005	**2SC3940ARA**	**TRANSISTOR**	**[M]**
Q5006	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
Q5007	**2SC3940ARA**	**TRANSISTOR**	**[M]**
Q5400	**B1ADCF000001**	**TRANSISTOR**	**[M]**
Q5401	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q5500	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q5501	**2SB0621AHA**	**TRANSISTOR**	**[M]**
Q5502	**B1ABCF000011**	**TRANSISTOR**	**[M]**
Q5503	**B1GBCFJJ0007**	**TRANSISTOR**	**[M]**
		DIODES	
D200	**B0JCAE000001**	**DIODE**	**[M]**
D201	**B0ACCK000005**	**DIODE**	**[M]**
D203	**B0ACCK000005**	**DIODE**	**[M]**
D204	**B0JCAE000001**	**DIODE**	**[M]**
D205	**B0ACCK000005**	**DIODE**	**[M]**
D206	**B0JCAE000001**	**DIODE**	**[M]**
D302	**B0ACCK000005**	**DIODE**	**[M]**
D303	**B0ACCE000003**	**DIODE**	**[M]**
D304	**B0ACCE000003**	**DIODE**	**[M]**
D305	**MAZ80390LL**	**DIODE**	**[M]**
D306	**B0ACCK000005**	**DIODE**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
D307	B0ACCK000005	DIODE	[M]
D401	B0ACCK000005	DIODE	[M]
D402	SLR342VC	DIODE	[M]
D403	MAZ80560ML	DIODE	[M]
D404	B0ACCK000005	DIODE	[M]
D405	B0ACCK000005	DIODE	[M]
D407	B0JCAE000001	DIODE	[M]
D410	B0ADCJ000020	DIODE	[M]
D701	B0FFAR000001	DIODE	[M]GN
D701	B0FFKC000001	DIODE	[M]GT
D702	B0ZAZ0000052	DIODE	[M]
D703	B0BC02900004	DIODE	[M]
D704	B0JAME000025	DIODE	[M]
D705	B0HAJL000001	DIODE	[M]
D706	B0HAJL000001	DIODE	[M]
D707	B0BC035A0007	DIODE	[M]
D708	B0BC01700015	DIODE	[M]
D709	B0ACCK000005	DIODE	[M]
D710	B0HAJL000001	DIODE	[M]
D715	B0EDKT000009	DIODE	[M]
D721	B0HAJL000001	DIODE	[M]
D722	B0HAGR000002	DIODE	[M]
D723	B0JAJG000002	DIODE	[M]
D724	B0BC4R600016	DIODE	[M]
D728	B0ACCK000005	DIODE	[M]
D800	B0HAJL000001	DIODE	[M]
D801	B0HAJL000001	DIODE	[M]
D802	B0HANM000012	DIODE	[M]
D803	B0HAJL000001	DIODE	[M]
D804	B0HAJL000001	DIODE	[M]
D805	MA2Q73800L	DIODE	[M]
D806	B0BC8R100004	DIODE	[M]
D807	B0BC8R100004	DIODE	[M]
D808	B0ACCK000005	DIODE	[M]
D852	B0HAJL000001	DIODE	[M]
D853	B0HAJL000001	DIODE	[M]
D854	B0HANM000012	DIODE	[M]
D855	B0HASM000003	DIODE	[M]
D856	B0HASM000003	DIODE	[M]
D857	B0BC8R100004	DIODE	[M]
D858	B0BC02400011	DIODE	[M]
D880	B0BC01400019	DIODE	[M]
D1701	MAZ80620ML	DIODE	[M]
D5001	B0ACCK000005	DIODE	[M]
D5002	B0ACCK000005	DIODE	[M]
D5003	B0ACCK000005	DIODE	[M]
D5004	B0ACCK000005	DIODE	[M]
D5006	MAZ80620ML	DIODE	[M]
D5500	B0ACCK000005	DIODE	[M]
D5501	B0ACCK000005	DIODE	[M]
D5502	B0ACCK000005	DIODE	[M]
D5503	B0ACCK000005	DIODE	[M]
DZ701	ERZV10V511CS	ZENER	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
		VARIABLE RESISTOR	
VR400	EVEKD2F3024B	ROTARY ENCODER	[M]
		SWITCHES	
S401	EVQ21405RJ	SW POWER	[M]
S402	EVQ21405RJ	SW < I/P SELECT	[M]
S403	EVQ21405RJ	SW I/P SELECT >	[M]
S404	EVQ21405RJ	SW ENTER	[M]
S406	EVQ21405RJ	SW MENU/-SETUP	[M]
S407	EVQ21405RJ	SW TUNE_DOWN	[M]
S408	EVQ21405RJ	SW TUNE_UP	[M]
		CONNECTORS	
CN200A	K1MN18A00046	18P CONNECTOR	[M]
CN200B	K1MN18A00046	18P CONNECTOR	[M]
CN400	K1MP07A00002	CONNECTOR	[M]
CN401	K1MP07A00002	CONNECTOR	[M]
CN402	K1MP08A00003	8P CONNECTOR	[M]
CN403A	K1MN16AA0003	16P FFC CONNECTOR	[M]
CN403B	K1MN16AA0003	16P FFC CONNECTOR	[M]
CN405	K1MP03A00012	3P CONNECTOR	[M]
CN800A	K1MP10A00007	MOLEX CONNECTOR	[M]
CN801	K1MP05A00009	5P CONNECTOR	[M]
CN802A	K1MP05A00009	5P CONNECTOR	[M]
CN850	K1KA10AA0319	10P CONNECTOR	[M]
CN904A	K1MN18A00046	18P CONNECTOR	[M]
CN904B	K1MN18A00046	18P CONNECTOR	[M]
CN906	K1MP04A00007	4P CONNECTOR	[M]
CN5500	K1KA02AA0186	FAN CONNECTOR	[M]
CP101	ENG07812QF	TUNER PACK	[M]
		THERMISTORS	
TH701	D4CAA5R10001	POWER THERMISTOR	[M]GT ⚠
TH701	D4CAC8R00002	THERMISTOR	[M]GN ⚠
		COILS & TRANSFORMERS	
L101	G0A200D00002	RF CHOKE COIL	[M]
L401	J0JBC0000019	CHIP INDUCTOR	[M]
L402	J0JBC0000019	CHIP INDUCTOR	[M]
L403	J0JBC0000019	CHIP INDUCTOR	[M]
L404	J0JBC0000019	CHIP INDUCTOR	[M]
L405	J0JBC0000019	CHIP INDUCTOR	[M]
L406	J0JBC0000019	CHIP INDUCTOR	[M]
L500	ETQA15B220	CHOKE COIL	[M]
L501	ETQA15B220	CHOKE COIL	[M]
L502	ETQA15B220	CHOKE COIL	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
L503	ETQA15B220	CHOKE COIL	[M]
L504	ETQA17B150	CHOKE COIL	[M]
L505	ETQA17B150	CHOKE COIL	[M]
L506	ETQA17B150	CHOKE COIL	[M]
L507	ETQA17B150	CHOKE COIL	[M]
L701	ELF18N067E	COMMON MODE COIL	[M] ⚠
L702	ELF21N015E	COMMON MODE COIL	[M]GN ⚠
L702	ETQR29C012A	COIL	[M]GT ⚠
L703	ELF21N015E	COMMON MODE COIL	[M]GN ⚠
L703	ELF21N024E	LINE FILTER COIL	[M]GT ⚠
L800	G0A200D00002	RF CHOKE COIL	[M]
L801	G0A200D00002	RF CHOKE COIL	[M]
L802	G0A200D00002	RF CHOKE COIL	[M]
L803	G0A200D00002	RF CHOKE COIL	[M]
L804	G0A200D00002	RF CHOKE COIL	[M]
L805	G0A200D00002	RF CHOKE COIL	[M]
L806	G0A200D00002	RF CHOKE COIL	[M]
L850	G0A200D00002	RF CHOKE COIL	[M]
L851	G0A200D00002	RF CHOKE COIL	[M]
L852	G0A200D00002	RF CHOKE COIL	[M]
L1001	G1C2R2K00012	CHIP INDUCTOR	[M]
L1002	G1C2R2K00012	CHIP INDUCTOR	[M]
L1003	G1C2R2K00012	CHIP INDUCTOR	[M]
L1004	G1C2R2K00012	CHIP INDUCTOR	[M]
L1101	G1C2R2K00012	CHIP INDUCTOR	[M]
L1102	G1C2R2K00012	CHIP INDUCTOR	[M]
L1103	G1C2R2K00012	CHIP INDUCTOR	[M]
L1301	RLQZ150M-0	CHOKE COIL	[M]
L1302	G1C1R0MA0061	CHIP INDUCTOR	[M]
L5800	G0B9R5K00001	CHOKE COIL	[M]
L5801	G0B9R5K00001	CHOKE COIL	[M]
L5802	G0B9R5K00001	CHOKE COIL	[M]
L5803	G0B9R5K00001	CHOKE COIL	[M]
LB500	J0JKB0000020	EMI BEAD CORE	[M]
LB501	J0JKB0000020	EMI BEAD CORE	[M]
LB502	J0JKB0000020	EMI BEAD CORE	[M]
LB503	J0JKB0000020	EMI BEAD CORE	[M]
LB504	J0JKB0000020	EMI BEAD CORE	[M]
LB505	J0JKB0000020	EMI BEAD CORE	[M]
LB506	J0JKB0000020	EMI BEAD CORE	[M]
LB507	J0JKB0000020	EMI BEAD CORE	[M]
LB508	J0JKB0000020	EMI BEAD CORE	[M]
LB509	J0JKB0000020	EMI BEAD CORE	[M]
LB704	J0JKB0000020	EMI BEAD CORE	[M]
LB800	J0JKB0000020	EMI BEAD CORE	[M]
LB5400	J0JKB0000020	EMI BEAD CORE	[M]
T701	ETS42AD4S4AD	MAIN TRANSFORMER	[M]GT ⚠
T701	ETS48AA196AC	MAIN TRANSFORMER	[M]GN ⚠
T721	ETS19AB1X6AG	STANDBY TRANSFORMER	[M] ⚠

Ref. No.	Part No.	Part Name & Description	Remarks
T800	ETS28AU379AC	SUB TRANSFORMER	[M] ⚠
		COMPONENT COMBINATIONS	
Z400	B3RAD0000087	REMOTE SENSOR	[M]
Z1101	J0JKB0000020	EMI BEAD CORE	[M]
PC701	B3PBA0000402	PHOTO COUPLER	[M]
PC721	B3PBA0000402	PHOTO COUPLER	[M]
SNE1	K9ZZ00001279	EARTH PLATE	[M]
SNE2	K9ZZ00001279	EARTH PLATE	[M]
SNE3	K9ZZ00001279	EARTH PLATE	[M]
SNE4	K9ZZ00001279	EARTH PLATE	[M]
ZA701	EYF52BCY	FUSE CLIP	[M]
ZA702	EYF52BCY	FUSE CLIP	[M]
ZJ502	K9ZZ00001279	EARTH PLATE	[M]
ZJ701	K4CZ01000027	EARTH LUG	[M]
		CERAMIC FILTER	
CF301	H2A1005A0005	RESONATOR	[M]
		RELAY	
RY721	K6B1AEA00003	PC POWER RELAY	[M] ⚠
		OSCILLATORS	
X1001	H0J122200002	CYRSTAL	[M]
X5400	H2A6023A0011	CERAMIC RESONATOR	[M]
X5401	H2A7003A0011	CERAMIC RESONATOR	[M]
		DISPLAY TUBE	
FL401	A2BB00000158	FL DISPLAY	[M]
		FUSES	
F1	K5D402BLA013	FUSE	[M]GN ⚠
F1	K5D802AQ0001	FUSE	[M]GT ⚠
		JACKS	
JK101	K4BK04H00008	JK 4P RCA	[M]
JK102	K4BK04H00008	JK 4P RCA	[M]
JK501	K4BC04B00107	JK SPEAKER	[M]
JK502	K4BC04B00107	JK SPEAKER	[M]
JK503	K4BC04B00107	JK SPEAKER	[M]
JK1301	B3RAB0000048	JK OPTICAL	[M]
JK1302	B3RAB0000048	JK OPTICAL	[M]
JK1303	K4BK01H00010	JK COAX INPUT	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
HP401	K2HC103A0024	JK HP	[M]
HP402	K2HC1YYA0005	JK MUSIC PORT	[M]
P701	K2AA2B000015	JK AC INLET	[M] ⚠
		WIRES	
JW400	RWJ1807100SQ	7P WIRE	[M]
JW401	RWJ1815130SQ	15P WIRE	[M]
JW405	RWJ1803220SQ	3P WIRE	[M]
JW700	REEV0122	PRIMARY WIRE (RED)	[M]
JW701	REEV0123	PRIMARY WIRE (WHITE)	[M]
JW800	RWJ1810100SQ	10P WIRE	[M]
JW801	RWJ1805110SQ	5P WIRE(PANEL-POWER)	[M]
JW802	RWJ1805110SQ	5P WIRE(PANEL-POWER)	[M]
JW850	REXV0069	10P WIRE (PWR-DAM)	[M]
JW906	RWJ1804110SQ	4P (MAIN-DSP)	[M]
ZJ100	REX1161-1	WIRE	[M]
ZJ101	REXV0071-1	GROUNDING WIRE	[M]
		PACKING MATERIALS	
P1	RPGV0262	PACKING CASE	[M]GN
P1	RPGV0263	PACKING CASE	[M]GT
P2	RPNV0093-1	POLYFOAM	[M]
P3	VPF1122-1	POLYBAG	[M]
		ACCESSORIES	
A1	N2QAYB000010	REMOTE CONTROL	[M]
A1-1	RKK-HTR0051K	R/C BATTERY COVER	[M]
A2	K2CA2CA00027	AC CORD	[M]GT ⚠
A2	K2CJ2DA00010	AC CORD	[M]GN ⚠
A3	RQTV0110-B	OI BOOK (En)	[M]GN
A3	RQTV0112-K	OI BOOK (Co)	[M]GT
A4	N1DAAAA00002	AM LOOP ANTENNA	[M]
A5	RSA0007-L	FM ANTENNA WIRE	[M]
		RESISTORS	
R101	ERJ3GEYJ102V	1K 1/16W	[M]
R102	ERJ3GEYJ102V	1K 1/16W	[M]
R103	ERJ3GEYJ102V	1K 1/16W	[M]
R104	ERJ3GEYJ102V	1K 1/16W	[M]
R105	ERJ3GEYJ102V	1K 1/16W	[M]
R106	ERJ3GEYJ102V	1K 1/16W	[M]
R107	ERJ3GEYJ102V	1K 1/16W	[M]
R108	ERJ3GEYJ102V	1K 1/16W	[M]
R131	D0GB473JA041	47K 1/16W	[M]
R132	D0GB473JA041	47K 1/16W	[M]
R133	ERJ3GEYJ102V	1K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R134	ERJ3GEYJ102V	1K 1/16W	[M]
R151	ERJ3GEYJ103V	10K 1/16W	[M]
R152	ERJ3GEYJ103V	10K 1/16W	[M]
R153	ERJ3GEYJ103V	10K 1/16W	[M]
R154	ERJ3GEYJ103V	10K 1/16W	[M]
R201	D0GB332JA007	3.3K 1/16W	[M]
R202	D0GB332JA007	3.3K 1/16W	[M]
R203	D0GB683JA007	68K 1/16W	[M]
R204	D0GB683JA007	68K 1/16W	[M]
R205	D0GB151JA007	150 1/16W	[M]
R206	D0GB151JA007	150 1/16W	[M]
R207	D0GB151JA007	150 1/16W	[M]
R208	D0GB151JA007	150 1/16W	[M]
R209	D0GB560JA007	56 1/16W	[M]
R210	D0GB560JA007	56 1/16W	[M]
R211	D0GB560JA007	56 1/16W	[M]
R212	D0GB560JA007	56 1/16W	[M]
R213	ERJ3GEYJ102V	1K 1/16W	[M]
R214	ERJ3GEYJ102V	1K 1/16W	[M]
R215	D0GB223JA041	22K 1/16W	[M]
R216	D0GB223JA041	22K 1/16W	[M]
R217	D0GB333JA007	33K 1/16W	[M]
R218	D0GB333JA007	33K 1/16W	[M]
R219	D0GB562JA007	5.6K 1/16W	[M]
R220	D0GB562JA007	5.6K 1/16W	[M]
R221	D0GB123JA007	12K 1/16W	[M]
R222	D0GB123JA007	12K 1/16W	[M]
R223	D0GB562JA007	5.6K 1/16W	[M]
R224	D0GB562JA007	5.6K 1/16W	[M]
R225	D0GB123JA007	12K 1/16W	[M]
R226	D0GB123JA007	12K 1/16W	[M]
R227	D0GB153JA007	15K 1/16W	[M]
R228	D0GB153JA007	15K 1/16W	[M]
R229	D0GB473JA041	47K 1/16W	[M]
R230	D0GB222JA041	2.2K 1/16W	[M]
R231	D0GB473JA041	47K 1/16W	[M]
R232	D0GB182JA007	1.8K 1/16W	[M]
R233	D0GB153JA007	15K 1/16W	[M]
R234	D0GB153JA007	15K 1/16W	[M]
R235	D0GB392JA007	3.9K 1/16W	[M]
R236	ERJ3GEYJ102V	1K 1/16W	[M]
R237	D0GB332JA007	3.3K 1/16W	[M]
R239	ERJ3GEYJ102V	1K 1/16W	[M]
R242	ERJ3GEYJ102V	1K 1/16W	[M]
R243	D0GB474JA041	470K 1/16W	[M]
R244	ERJ3GEYJ822V	8.2K 1/16W	[M]
R245	ERJ3GEYJ102V	1K 1/16W	[M]
R247	ERJ3GEYJ102V	1K 1/16W	[M]
R248	ERJ3GEYJ822V	8.2K 1/16W	[M]
R249	D0GB474JA041	470K 1/16W	[M]
R254	D0GB473JA041	47K 1/16W	[M]
R255	D0GB473JA041	47K 1/16W	[M]
R256	D0GB104JA007	100K 1/16W	[M]
R257	D0GB104JA007	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R258	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R259	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R260	**D0GB223JA041**	**22K 1/16W**	**[M]**
R261	**D0GB223JA041**	**22K 1/16W**	**[M]**
R263	**D0GB473JA041**	**47K 1/16W**	**[M]**
R264	**D0GB473JA041**	**47K 1/16W**	**[M]**
R265	**D0GB223JA041**	**22K 1/16W**	**[M]**
R266	**D0GB223JA041**	**22K 1/16W**	**[M]**
R267	**D0GB223JA041**	**22K 1/16W**	**[M]**
R268	**D0GB473JA041**	**47K 1/16W**	**[M]**
R270	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R272	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R273	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R277	**D0GB223JA041**	**22K 1/16W**	**[M]**
R278	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R279	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R280	**D0GB153JA007**	**15K 1/16W**	**[M]**
R281	**D0GB393JA007**	**39K 1/16W**	**[M]**
R282	**D0GB332JA007**	**3.3K 1/16W**	**[M]**
R283	**D0GB332JA007**	**3.3K 1/16W**	**[M]**
R284	**D0GB473JA041**	**47K 1/16W**	**[M]**
R285	**D0GB473JA041**	**47K 1/16W**	**[M]**
R286	**ERJ3GEYJ822V**	**8.2K 1/16W**	**[M]**
R287	**D0GB474JA041**	**470K 1/16W**	**[M]**
R289	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R290	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R291	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R292	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R293	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R294	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R295	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R296	**ERJ3GEY0R00V**	**0 1/16W**	**[M]**
R297	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R298	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R299	**D0GB152JA007**	**1.5K 1/16W**	**[M]**
R301	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R302	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R303	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R305	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R306	**ERJ3GEYJ102V**	**1K 1/16W**	**[M]**
R307	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R308	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R309	**D0GB472JA041**	**4.7K 1/16W**	**[M]**
R310	**D0GB473JA041**	**47K 1/16W**	**[M]**
R311	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R312	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R313	**D0GB273JA007**	**27K 1/16W**	**[M]**
R314	**D0GB472JA041**	**4.7K 1/16W**	**[M]**
R315	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R316	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R317	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R318	**ERJ3GEYJ103V**	**10K 1/16W**	**[M]**
R323	**D0GB271JA007**	**270 1/16W**	**[M]**
R324	**D0GB121JA007**	**120 1/16W**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
R402	D0GB104JA007	100K 1/16W	[M]
R403	D0GB332JA007	3.3K 1/16W	[M]
R404	ERJ3GEYJ822V	8.2K 1/16W	[M]
R405	D0GB271JA007	270 1/16W	[M]
R406	ERJ3GEYJ102V	1K 1/16W	[M]
R407	ERJ3GEYJ102V	1K 1/16W	[M]
R408	ERJ3GEYJ102V	1K 1/16W	[M]
R409	ERJ3GEYJ102V	1K 1/16W	[M]
R411	D0GB101JA007	100 1/16W	[M]
R412	D0GB152JA007	1.5K 1/16W	[M]
R500	D0GB562JA007	5.6K 1/16W	[M]
R501	D0GB562JA007	5.6K 1/16W	[M]
R502	D0GB562JA007	5.6K 1/16W	[M]
R503	D0GB562JA007	5.6K 1/16W	[M]
R504	ERJ8GEYJ100V	10 1/8W	[M]
R505	ERJ8GEYJ100V	10 1/8W	[M]
R506	ERG2SJ220E	22 2W	[M]
R507	ERG2SJ220E	22 2W	[M]
R509	D0GB124JA007	120K 1/16W	[M]
R510	D0GB223JA041	22K 1/16W	[M]
R512	D0GB683JA007	68K 1/16W	[M]
R514	ERJ8GEYJ100V	10 1/8W	[M]
R515	ERJ8GEYJ100V	10 1/8W	[M]
R520	D0GB562JA007	5.6K 1/16W	[M]
R521	D0GB562JA007	5.6K 1/16W	[M]
R522	D0GB562JA007	5.6K 1/16W	[M]
R523	D0GB562JA007	5.6K 1/16W	[M]
R524	ERJ8GEYJ100V	10 1/8W	[M]
R525	ERJ8GEYJ100V	10 1/8W	[M]
R526	ERG2SJ220E	22 2W	[M]
R527	ERG2SJ220E	22 2W	[M]
R529	D0GB124JA007	120K 1/16W	[M]
R530	D0GB223JA041	22K 1/16W	[M]
R532	D0GB683JA007	68K 1/16W	[M]
R534	ERJ8GEYJ100V	10 1/8W	[M]
R535	ERJ8GEYJ100V	10 1/8W	[M]
R541	D0GB562JA007	5.6K 1/16W	[M]
R543	D0GB562JA007	5.6K 1/16W	[M]
R544	ERJ8GEYJ100V	10 1/8W	[M]
R545	ERJ8GEYJ100V	10 1/8W	[M]
R546	ERG2SJ220E	22 2W	[M]
R547	ERG2SJ220E	22 2W	[M]
R549	D0GB124JA007	120K 1/16W	[M]
R550	D0GB223JA041	22K 1/16W	[M]
R552	D0GB683JA007	68K 1/16W	[M]
R554	ERJ8GEYJ100V	10 1/8W	[M]
R555	ERJ8GEYJ100V	10 1/8W	[M]
R561	D0GB562JA007	5.6K 1/16W	[M]
R563	D0GB562JA007	5.6K 1/16W	[M]
R564	ERJ8GEYJ100V	10 1/8W	[M]
R565	ERJ8GEYJ100V	10 1/8W	[M]
R566	ERG2SJ220E	22 2W	[M]
R567	ERG2SJ220E	22 2W	[M]
R569	D0GB124JA007	120K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R570	D0GB223JA041	22K 1/16W	[M]
R572	D0GB683JA007	68K 1/16W	[M]
R574	ERJ8GEYJ100V	10 1/8W	[M]
R575	ERJ8GEYJ100V	10 1/8W	[M]
R702	ERG2SJ333P	33K 2W	[M]GT
R702	ERG2SJ683P	68K 2W	[M]GN
R703	ERJ6GEYJ681V	680 1/10W	[M]
R704	ERX2LJ22MP	0.22 2W	[M]GT
R704	ERX2LJ68MP	0.68 2W	[M]GN
R705	ERX2LJ22MP	0.22 2W	[M]GT
R705	ERX2LJ56MP	0.56 2W	[M]GN
R706	D0AF333JA039	33K 1/4W	[M]
R707	D0AF333JA039	33K 1/4W	[M]
R708	ERJ6GEYJ332V	3.3K 1/10W	[M]
R709	ERJ6GEYJ222V	2.2K 1/10W	[M]
R710	ERJ6GEYJ103V	10K 1/10W	[M]
R711	ERJ6GEYJ220V	22 1/10W	[M]
R712	ERJ6GEYJ222V	2.2K 1/10W	[M]
R726	ERJ6GEYJ332V	3.3K 1/10W	[M]
R727	ERJ6GEYJ102V	1K 1/10W	[M]
R751	ERDS1TJ474T	470K 1/2W	[M]
R771	ERJ6GEYJ220V	22 1/10W	[M]
R772	ERJ6GEYJ104V	100K 1/10W	[M]
R773	D0GB474JA041	470K 1/16W	[M]
R774	D0GB153JA007	15K 1/16W	[M]
R775	ERJ3GEYJ681V	680 1/16W	[M]
R776	D0GB471JA041	470 1/16W	[M]
R800	D0AF100JA039	10 1/4W	[M]
R801	ERDS1FVJ222T	2.2K 1/2W	[M]
R802	ERX2LJ68MP	0.68 2W	[M]
R803	ERJ3GEYJ681V	680 1/16W	[M]
R804	D0GB332JA007	3.3K 1/16W	[M]
R805	D0GB332JA007	3.3K 1/16W	[M]
R806	D0GB222JA041	2.2K 1/16W	[M]
R807	D0GB222JA041	2.2K 1/16W	[M]
R808	D0GB222JA041	2.2K 1/16W	[M]
R809	D0GB472JA041	4.7K 1/16W	[M]
R810	D0GB222JA041	2.2K 1/16W	[M]
R811	D0GB471JA041	470 1/16W	[M]
R817	D0GB471JA041	470 1/16W	[M]
R818	D0GB471JA041	470 1/16W	[M]
R819	D0GB101JA007	100 1/16W	[M]
R820	D0GB101JA007	100 1/16W	[M]
R852	D0GB101JA007	100 1/16W	[M]
R853	ERJ3GEYG223V	22K 1/16W	[M]
R858	ERJ3GEYG222V	2.2K 1/16W	[M]
R859	D0GB101JA007	100 1/16W	[M]
R860	ERJ3GEYJ103V	10K 1/16W	[M]
R864	ERJ6GEYJ332V	3.3K 1/10W	[M]
R867	ERDS1FVJ3R9T	3.9 1/2W	[M]
R868	ERJ3GEYJ122V	1.2K 1/16W	[M]
R879	ERJ3GEY0R00V	0 1/16W	[M]
R880	ERDS1FVJ182T	1.8K 1/2W	[M]
R881	D0GB222JA041	2.2K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R882	ERJ3GEYJ102V	1K 1/16W	[M]
R883	ERJ3GEYJ103V	10K 1/16W	[M]
R884	ERJ3GEYJ103V	10K 1/16W	[M]
R885	ERJ3GEYJ103V	10K 1/16W	[M]
R886	ERJ3GEYJ103V	10K 1/16W	[M]
R887	D0GB104JA007	100K 1/16W	[M]
R888	D0GB124JA007	120K 1/16W	[M]
R889	D0GB472JA041	4.7K 1/16W	[M]
R890	D0GB562JA007	5.6K 1/16W	[M]
R891	ERX2LJ22MP	0.22 2W	[M]
R892	ERX2LJ22MP	0.22 2W	[M]
R893	D0GB332JA007	3.3K 1/16W	[M]
R894	D0GB223JA041	22K 1/16W	[M]
R895	ERJ3GEYJ103V	10K 1/16W	[M]
R896	ERJ3GEYJ103V	10K 1/16W	[M]
R897	D0GB101JA007	100 1/16W	[M]
R898	D0GB104JA007	100K 1/16W	[M]
R899	ERJ3GEYJ103V	10K 1/16W	[M]
R1001	D0GB332JA007	3.3K 1/16W	[M]
R1002	D0GB332JA007	3.3K 1/16W	[M]
R1003	ERJ3GEYJ103V	10K 1/16W	[M]
R1004	D0GB332JA007	3.3K 1/16W	[M]
R1005	D0GB332JA007	3.3K 1/16W	[M]
R1006	ERJ3GEYJ103V	10K 1/16W	[M]
R1007	ERJ3GEYJ103V	10K 1/16W	[M]
R1008	ERJ3GEYJ103V	10K 1/16W	[M]
R1009	ERJ3GEYJ103V	10K 1/16W	[M]
R1010	ERJ3GEYJ103V	10K 1/16W	[M]
R1011	ERJ3GEYJ103V	10K 1/16W	[M]
R1012	ERJ3GEYJ103V	10K 1/16W	[M]
R1013	ERJ3GEYJ103V	10K 1/16W	[M]
R1014	ERJ3GEYJ103V	10K 1/16W	[M]
R1015	D0GB472JA041	4.7K 1/16W	[M]
R1016	D0GB333JA007	33K 1/16W	[M]
R1017	D0GB472JA041	4.7K 1/16W	[M]
R1018	D0GB330JA007	33 1/16W	[M]
R1019	ERJ3GEYJ102V	1K 1/16W	[M]
R1020	ERJ3GEYJ102V	1K 1/16W	[M]
R1021	ERJ3GEYJ102V	1K 1/16W	[M]
R1022	ERJ3GEYJ102V	1K 1/16W	[M]
R1023	D0GB105JA007	1M 1/16W	[M]
R1024	ERJ3GEYJ102V	1K 1/16W	[M]
R1025	ERJ3GEY0R00V	0 1/16W	[M]
R1026	D0GB104JA007	100K 1/16W	[M]
R1027	D0GB104JA007	100K 1/16W	[M]
R1028	D0GB330JA007	33 1/16W	[M]
R1029	ERJ3GEYJ102V	1K 1/16W	[M]
R1030	ERJ3GEYJ102V	1K 1/16W	[M]
R1101	ERJ3GEY0R00V	0 1/16W	[M]
R1106	D0GB332JA007	3.3K 1/16W	[M]
R1108	ERJ3GEY0R00V	0 1/16W	[M]
R1109	ERJ3GEY0R00V	0 1/16W	[M]
R1110	ERJ3GEY0R00V	0 1/16W	[M]
R1111	D0GB104JA007	100K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1112	ERJ3GEY0R00V	0 1/16W	[M]
R1113	ERJ3GEY0R00V	0 1/16W	[M]
R1114	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1115	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1116	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1117	ERJ3GEYJ122V	1.2K 1/16W	[M]
R1118	D0GB152JA007	1.5K 1/16W	[M]
R1119	D0GB152JA007	1.5K 1/16W	[M]
R1120	D0GB152JA007	1.5K 1/16W	[M]
R1121	D0GB152JA007	1.5K 1/16W	[M]
R1122	D0GB272JA007	2.7K 1/16W	[M]
R1123	D0GB332JA007	3.3K 1/16W	[M]
R1124	D0GB332JA007	3.3K 1/16W	[M]
R1125	D0GB272JA007	2.7K 1/16W	[M]
R1201	D0GB562JA007	5.6K 1/16W	[M]
R1202	D0GB562JA007	5.6K 1/16W	[M]
R1203	D0GB562JA007	5.6K 1/16W	[M]
R1204	D0GB562JA007	5.6K 1/16W	[M]
R1205	D0GB562JA007	5.6K 1/16W	[M]
R1206	D0GB562JA007	5.6K 1/16W	[M]
R1207	D0GB152JA007	1.5K 1/16W	[M]
R1208	D0GB152JA007	1.5K 1/16W	[M]
R1209	D0GB152JA007	1.5K 1/16W	[M]
R1210	D0GB152JA007	1.5K 1/16W	[M]
R1211	D0GB152JA007	1.5K 1/16W	[M]
R1212	D0GB152JA007	1.5K 1/16W	[M]
R1213	D0GB152JA007	1.5K 1/16W	[M]
R1214	D0GB152JA007	1.5K 1/16W	[M]
R1215	D0GB152JA007	1.5K 1/16W	[M]
R1216	D0GB152JA007	1.5K 1/16W	[M]
R1217	D0GB152JA007	1.5K 1/16W	[M]
R1218	D0GB152JA007	1.5K 1/16W	[M]
R1219	ERJ3GEYJ102V	1K 1/16W	[M]
R1220	ERJ3GEYJ102V	1K 1/16W	[M]
R1221	ERJ3GEYJ102V	1K 1/16W	[M]
R1222	ERJ3GEYJ102V	1K 1/16W	[M]
R1223	ERJ3GEYJ102V	1K 1/16W	[M]
R1224	ERJ3GEYJ102V	1K 1/16W	[M]
R1225	D0GB272JA007	2.7K 1/16W	[M]
R1226	D0GB562JA007	5.6K 1/16W	[M]
R1227	D0GB272JA007	2.7K 1/16W	[M]
R1228	D0GB562JA007	5.6K 1/16W	[M]
R1229	D0GB272JA007	2.7K 1/16W	[M]
R1230	D0GB562JA007	5.6K 1/16W	[M]
R1231	D0GB562JA007	5.6K 1/16W	[M]
R1232	D0GB272JA007	2.7K 1/16W	[M]
R1233	D0GB562JA007	5.6K 1/16W	[M]
R1234	D0GB272JA007	2.7K 1/16W	[M]
R1235	D0GB562JA007	5.6K 1/16W	[M]
R1236	D0GB272JA007	2.7K 1/16W	[M]
R1237	D0GB473JA041	47K 1/16W	[M]
R1238	D0GB473JA041	47K 1/16W	[M]
R1239	D0GB473JA041	47K 1/16W	[M]
R1240	D0GB473JA041	47K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R1241	D0GB473JA041	47K 1/16W	[M]
R1242	D0GB473JA041	47K 1/16W	[M]
R1301	ERJ3GEYJ750V	75 1/16W	[M]
R1302	D0GB100JA007	10 1/16W	[M]
R1303	D0GB100JA007	10 1/16W	[M]
R1401	ERJ3GEY0R00V	0 1/16W	[M]
R1402	ERJ3GEY0R00V	0 1/16W	[M]
R1403	ERJ3GEY0R00V	0 1/16W	[M]
R1404	ERJ3GEY0R00V	0 1/16W	[M]
R1405	ERJ3GEY0R00V	0 1/16W	[M]
R1406	ERJ3GEY0R00V	0 1/16W	[M]
R1407	ERJ3GEY0R00V	0 1/16W	[M]
R1408	ERJ3GEY0R00V	0 1/16W	[M]
R1409	ERJ3GEY0R00V	0 1/16W	[M]
R1410	ERJ3GEY0R00V	0 1/16W	[M]
R1411	ERJ3GEY0R00V	0 1/16W	[M]
R1412	ERJ3GEY0R00V	0 1/16W	[M]
R1510	D0GB224JA007	220K 1/16W	[M]
R1520	D0GB224JA007	220K 1/16W	[M]
R1530	D0GB224JA007	220K 1/16W	[M]
R1540	D0GB224JA007	220K 1/16W	[M]
R1701	D0GB151JA007	150 1/16W	[M]
R1702	D0GB272JA007	2.7K 1/16W	[M]
R1703	D0AF4R7JA039	4.7 1/4W	[M]
R1704	D0AF4R7JA039	4.7 1/4W	[M]
R2150	D0GB473JA041	47K 1/16W	[M]
R2151	D0GB223JA041	22K 1/16W	[M]
R2152	D0GB223JA041	22K 1/16W	[M]
R2153	D0GB223JA041	22K 1/16W	[M]
R2154	D0GB473JA041	47K 1/16W	[M]
R2160	D0GB473JA041	47K 1/16W	[M]
R3050	ERJ3GEYJ102V	1K 1/16W	[M]
R3051	ERJ3GEYJ102V	1K 1/16W	[M]
R3052	ERJ3GEYJ102V	1K 1/16W	[M]
R3053	ERJ3GEYJ102V	1K 1/16W	[M]
R3054	ERJ3GEYJ102V	1K 1/16W	[M]
R3055	ERJ3GEYJ102V	1K 1/16W	[M]
R3056	D0GB332JA007	3.3K 1/16W	[M]
R3057	ERJ3GEYJ103V	10K 1/16W	[M]
R3058	ERJ3GEYJ102V	1K 1/16W	[M]
R3065	ERJ3GEYJ103V	10K 1/16W	[M]
R3070	ERJ3GEYJ103V	10K 1/16W	[M]
R3071	D0GB473JA041	47K 1/16W	[M]
R3072	D0GB473JA041	47K 1/16W	[M]
R3073	ERJ3GEYJ103V	10K 1/16W	[M]
R3074	ERJ3GEYJ103V	10K 1/16W	[M]
R3075	ERJ3GEYJ103V	10K 1/16W	[M]
R3076	ERJ3GEYJ103V	10K 1/16W	[M]
R3077	D0GB473JA041	47K 1/16W	[M]
R3129	ERJ3GEYJ103V	10K 1/16W	[M]
R3130	ERJ3GEYJ103V	10K 1/16W	[M]
R3131	ERJ3GEYJ681V	680 1/16W	[M]
R3184	ERJ3GEYJ103V	10K 1/16W	[M]
R3185	ERJ3GEYJ103V	10K 1/16W	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
R4030	D0GB222JA041	2.2K 1/16W	[M]
R4033	D0GB332JA007	3.3K 1/16W	[M]
R4034	D0GB222JA041	2.2K 1/16W	[M]
R4061	D0GB823JA007	82K 1/16W	[M]
R5001	D0GB332JA007	3.3K 1/16W	[M]
R5002	D0GB332JA007	3.3K 1/16W	[M]
R5003	D0GB332JA007	3.3K 1/16W	[M]
R5004	D0GB332JA007	3.3K 1/16W	[M]
R5005	D0GB332JA007	3.3K 1/16W	[M]
R5006	D0GB332JA007	3.3K 1/16W	[M]
R5007	ERJ3GEYJ103V	10K 1/16W	[M]
R5008	ERG3SJ470P	47 3W	[M]
R5009	D0GB152JA007	1.5K 1/16W	[M]
R5010	ERG3SJ470P	47 3W	[M]
R5011	ERG3SJ470P	47 3W	[M]
R5400	ERJ3GEYJ102V	1K 1/16W	[M]
R5401	ERJ3GEYJ103V	10K 1/16W	[M]
R5402	D0GB4R7JA007	4.7 1/16W	[M]
R5403	D0GB104JA007	100K 1/16W	[M]
R5404	D0GB104JA007	100K 1/16W	[M]
R5405	ERJ3GEYJ682V	6.8K 1/16W	[M]
R5406	D0GB105JA007	1M 1/16W	[M]
R5407	D0GB220JA007	22 1/16W	[M]
R5408	D0GB104JA007	100K 1/16W	[M]
R5500	D0GB104JA007	100K 1/16W	[M]
R5501	ERJ3GEYJ103V	10K 1/16W	[M]
R5503	D0GB562JA007	5.6K 1/16W	[M]
R5504	D0GB472JA041	4.7K 1/16W	[M]
R5505	ERJ3GEYJ102V	1K 1/16W	[M]
R5506	ERJ3GEYJ103V	10K 1/16W	[M]
R5507	D0GB563JA007	56K 1/16W	[M]
R5508	ERJ3GEYJ103V	10K 1/16W	[M]
R5509	D0GB563JA007	56K 1/16W	[M]
R5510	D0AF820JA039	82 1/4W	[M]
R5512	D0GB473JA041	47K 1/16W	[M]
R5513	D0GB473JA041	47K 1/16W	[M]
R5800	ERDS1FVJ1R0T	1 1/2W	[M]
K107	ERJ6GEY0R00V	CHIP JUMPER	[M]
K108	ERJ6GEY0R00V	CHIP JUMPER	[M]
K109	ERJ6GEY0R00V	CHIP JUMPER	[M]
K110	ERJ6GEY0R00V	CHIP JUMPER	[M]
W68	ERJ8GEY0R00V	CHIP JUMPER	[M]
W501	ERJ6GEY0R00V	CHIP JUMPER	[M]
W503	ERJ3GEY0R00V	CHIP JUMPER	[M]
W508	ERJ6GEY0R00V	CHIP JUMPER	[M]
W509	ERJ6GEY0R00V	CHIP JUMPER	[M]
W510	ERJ6GEY0R00V	CHIP JUMPER	[M]
W511	ERJ8GEY0R00V	CHIP JUMPER	[M]
W514	ERJ8GEY0R00V	CHIP JUMPER	[M]
W517	ERJ8GEY0R00V	CHIP JUMPER	[M]
W518	ERJ3GEY0R00V	CHIP JUMPER	[M]
W520	ERJ8GEY0R00V	CHIP JUMPER	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
W521	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W522	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W523	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W526	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W527	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W528	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W529	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W530	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W531	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W532	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W533	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W534	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W535	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W536	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W537	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W538	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W539	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W540	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W541	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W542	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W543	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W544	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W545	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W546	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W547	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W549	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W550	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W551	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W552	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W553	**ERJ6GEY0R00V**	**CHIP JUMPER**	**[M]**
W554	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W555	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W556	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W557	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W558	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W559	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W560	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W561	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W562	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W563	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W564	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W565	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W601	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W602	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W603	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W604	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W605	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W607	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W608	**ERJ8GEY0R00V**	**CHIP JUMPER**	**[M]**
W651	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W850	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
W851	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**
WA500	**ERJ3GEY0R00V**	**CHIP JUMPER**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
WA501	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA502	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA503	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA504	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA506	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA510	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA511	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA512	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA514	ERJ6GEY0R00V	CHIP JUMPER	[M]
WA521	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA524	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA525	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA527	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA530	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA531	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA532	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA533	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA534	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA535	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA537	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA538	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA539	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA540	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA541	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA542	ERJ3GEY0R00V	CHIP JUMPER	[M]
WA543	ERJ3GEY0R00V	CHIP JUMPER	[M]
		CAPACITORS	
C101	ECJ1VC1H821J	820P 50V	[M]
C102	ECJ1VC1H821J	820P 50V	[M]
C103	F1H1H101A230	100P 50V	[M]
C104	F1H1H101A230	100P 50V	[M]
C105	ECJ1VC1H821J	820P 50V	[M]
C106	ECJ1VC1H821J	820P 50V	[M]
C107	F1H1H101A230	100P 50V	[M]
C108	F1H1H101A230	100P 50V	[M]
C109	ECJ1VC1H821J	820P 50V	[M]
C110	ECJ1VC1H821J	820P 50V	[M]
C111	F1H1H101A230	100P 50V	[M]
C112	F1H1H101A230	100P 50V	[M]
C113	ECJ1VC1H821J	820P 50V	[M]
C114	ECJ1VC1H821J	820P 50V	[M]
C115	F1H1H101A230	100P 50V	[M]
C116	F1H1H101A230	100P 50V	[M]
C121	ECA1HAK2R2XB	2.2 50V	[M]
C122	ECA1HAK2R2XB	2.2 50V	[M]
C123	ECA1HAK2R2XB	2.2 50V	[M]
C124	ECA1HAK2R2XB	2.2 50V	[M]
C125	ECA1HAK2R2XB	2.2 50V	[M]
C126	ECA1HAK2R2XB	2.2 50V	[M]
C131	F1H1H332A013	3300P 50V	[M]
C132	F1H1H332A013	3300P 50V	[M]
C133	F1H1E103A029	0.01 25V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C134	F1H1E103A029	0.01 25V	[M]
C135	ECA1CAK220XB	22 16V	[M]
C136	F1H1A334A036	0.33 10V	[M]
C151	ECA1CAK101XB	100 16V	[M]
C152	F1H1E103A029	0.01 25V	[M]
C153	F1H1H470A230	47P 50V	[M]
C154	F1H1H470A230	47P 50V	[M]
C155	ECA1CAK101XB	100 16V	[M]
C156	F1H1E103A029	0.01 25V	[M]
C157	ECA1HAK4R7XB	4.7 50V	[M]
C158	ECA1HAK100XB	10 50V	[M]
C159	ECA1HAK100XB	10 50V	[M]
C160	ECA1HAK4R7XB	4.7 50V	[M]
C161	ECA1HAK4R7XB	4.7 50V	[M]
C162	ECA1HAK100XB	10 50V	[M]
C163	ECA1HAK4R7XB	4.7 50V	[M]
C164	ECA1HAK4R7XB	4.7 50V	[M]
C165	ECA1HAK100XB	10 50V	[M]
C166	ECA1HAK4R7XB	4.7 50V	[M]
C167	ECA1HAK100XB	10 50V	[M]
C168	ECA1HAK4R7XB	4.7 50V	[M]
C170	ECA1HAK2R2XB	2.2 50V	[M]
C171	ECA1HAK2R2XB	2.2 50V	[M]
C174	ECJ1VB1C823K	0.082 16V	[M]
C175	ECA1HAK4R7XB	4.7 50V	[M]
C200	F1H1C104A008	0.1 16V	[M]
C203	F1H1H470A230	47P 50V	[M]
C204	F1H1H470A230	47P 50V	[M]
C205	F1H1H102A219	1000P 50V	[M]
C206	F1H1H102A219	1000P 50V	[M]
C207	ECJ1VB1A474K	0.47 10V	[M]
C208	ECJ1VB1A474K	0.47 10V	[M]
C209	F1H1A154A001	0.15 10V	[M]
C210	F1H1A154A001	0.15 10V	[M]
C211	ECJ1VB1C563K	0.056 16V	[M]
C212	ECJ1VB1C563K	0.056 16V	[M]
C213	F1H1C104A008	0.1 16V	[M]
C216	F1H1C104A008	0.1 16V	[M]
C217	F1H1C104A008	0.1 16V	[M]
C220	F1H1H470A230	47P 50V	[M]
C221	F1H1H470A230	47P 50V	[M]
C222	F1H1C104A008	0.1 16V	[M]
C223	ECA1CAK100XB	10 16V	[M]
C224	ECA1CAK100XB	10 16V	[M]
C225	F1H1C104A008	0.1 16V	[M]
C226	F1H1C104A008	0.1 16V	[M]
C229	ECJ1VC1H151J	150P 50V	[M]
C230	ECJ1VC1H151J	150P 50V	[M]
C231	ECA1CAK100XB	10 16V	[M]
C232	ECA1CAK100XB	10 16V	[M]
C233	F1H1C104A008	0.1 16V	[M]
C234	F1H1C104A008	0.1 16V	[M]
C235	F1H1C104A008	0.1 16V	[M]
C238	ECJ1VC1H151J	150P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C239	ECA1HAK010XB	1 50V	[M]
C240	ECA1HAKR33XB	0.33 50V	[M]
C242	F1H1C104A008	0.1 16V	[M]
C243	ECJ1VB1H223K	0.022 50V	[M]
C244	F1H1C104A008	0.1 16V	[M]
C247	F1H1A334A036	0.33 10V	[M]
C248	F1H1C104A008	0.1 16V	[M]
C249	ECA1CAK100XB	10 16V	[M]
C250	ECA1CAK100XB	10 16V	[M]
C251	F1H1C104A008	0.1 16V	[M]
C253	F1H1C104A008	0.1 16V	[M]
C254	F1H1C104A008	0.1 16V	[M]
C264	ECA1HAK100XB	10 50V	[M]
C265	ECA1HAK100XB	10 50V	[M]
C266	F1H1H101A230	100P 50V	[M]
C267	F1H1H101A230	100P 50V	[M]
C268	F1H1C104A008	0.1 16V	[M]
C273	F1H1C104A008	0.1 16V	[M]
C274	F1H1C104A008	0.1 16V	[M]
C275	ECA1HAK3R3XB	3.3 50V	[M]
C276	ECA1HAK3R3XB	3.3 50V	[M]
C277	ECA1CAK470XB	47 16V	[M]
C278	ECA1CAK470XB	47 16V	[M]
C280	F1H1E103A029	0.01 25V	[M]
C282	F1H1C104A008	0.1 16V	[M]
C283	F1H1C104A008	0.1 16V	[M]
C284	F1H1H152A219	1500P 50V	[M]
C285	F1H1H152A219	1500P 50V	[M]
C301	F1H1H102A219	1000P 50V	[M]
C302	F1H1H102A219	1000P 50V	[M]
C303	F1H1H102A219	1000P 50V	[M]
C304	F1H1H102A219	1000P 50V	[M]
C305	F1H1E103A029	0.01 25V	[M]
C306	F1H1E103A029	0.01 25V	[M]
C307	ECA0JAK101XB	100 6.3V	[M]
C308	F1H1E103A029	0.01 25V	[M]
C309	ECJ1VC1H680J	68P 50V	[M]
C310	ECJ1VC1H680J	68P 50V	[M]
C311	ECA0JAM102XB	1000 6.3V	[M]
C312	ECA0JAM102XB	1000 6.3V	[M]
C313	F1H1C104A008	0.1 16V	[M]
C314	F1H1E103A029	0.01 25V	[M]
C315	ECA1HAK010XB	1 50V	[M]
C316	ECA1HAK010XB	1 50V	[M]
C317	F1H1E103A029	0.01 25V	[M]
C318	F1H1E103A029	0.01 25V	[M]
C319	ECA0JAK101XB	100 6.3V	[M]
C400	F1H1H101A230	100P 50V	[M]
C401	F1H1H101A230	100P 50V	[M]
C402	F1H1H103A219	0.01 50V	[M]
C403	F1H1H101A230	100P 50V	[M]
C404	F1H1H101A230	100P 50V	[M]
C405	F1H1H103A219	0.01 50V	[M]
C406	F1H1H103A219	0.01 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C407	F1H1H102A219	1000P 50V	[M]
C408	F1H1H102A219	1000P 50V	[M]
C409	F1H1H102A219	1000P 50V	[M]
C410	F1H1H102A219	1000P 50V	[M]
C411	ECA0JAM471XB	470 6.3V	[M]
C412	F1H1C104A008	0.1 16V	[M]
C413	ECA1HAK220XB	22 50V	[M]
C414	ECA1HAK220XB	22 50V	[M]
C415	ECA1HAK220XB	22 50V	[M]
C416	ECA1HAK220XB	22 50V	[M]
C417	ECA1HAK100XB	10 50V	[M]
C418	ECA1HAK220XB	22 50V	[M]
C419	ECA1HAK220XB	22 50V	[M]
C420	F1H1C104A008	0.1 16V	[M]
C451	ECJ1VC1H821J	820P 50V	[M]
C452	ECJ1VC1H821J	820P 50V	[M]
C453	ECJ1VC1H821J	820P 50V	[M]
C454	F1H1H101A230	100P 50V	[M]
C455	F1H1H101A230	100P 50V	[M]
C456	F1H1H102A219	1000P 50V	[M]
C457	F1H1H331A013	330P 50V	[M]
C458	F1H1H331A013	330P 50V	[M]
C459	F1H1H331A013	330P 50V	[M]
C460	F1H1H331A013	330P 50V	[M]
C461	F1H1H331A013	330P 50V	[M]
C462	F1H1H331A013	330P 50V	[M]
C463	F1H1H331A013	330P 50V	[M]
C464	F1H1H331A013	330P 50V	[M]
C465	F1H1H331A013	330P 50V	[M]
C466	F1H1H331A013	330P 50V	[M]
C467	F1H1H331A013	330P 50V	[M]
C468	F1H1H331A013	330P 50V	[M]
C469	ECA1CAK330XB	33 16V	[M]
C500	F1H1H102A219	1000P 50V	[M]
C501	F1H1H102A219	1000P 50V	[M]
C502	ECJ1VB1A474K	0.47 10V	[M]
C503	ECJ1VB1A474K	0.47 10V	[M]
C504	ECJ1VB1A474K	0.47 10V	[M]
C505	ECJ1VB1A474K	0.47 10V	[M]
C506	F1H1H331A004	330P 50V	[M]
C507	F1H1H331A004	330P 50V	[M]
C508	F1H1H104A783	0.1 50V	[M]
C509	F1H1H104A783	0.1 50V	[M]
C510	F1K2A1040007	0.1 100V	[M]
C511	F1K2A1040007	0.1 100V	[M]
C512	F1H1H104A783	0.1 50V	[M]
C513	F1H1H104A783	0.1 50V	[M]
C515	F1H1H221A748	220P 50V	[M]
C516	F1K2A1040007	0.1 100V	[M]
C517	F1K2A1040007	0.1 100V	[M]
C518	F1K1V105A003	1 35V	[M]
C519	F1K1V105A003	1 35V	[M]
C520	F1K1H2210001	220P 50V	[M]
C521	F1K1H2210001	220P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C522	ECJ1VB1H153K	0.015 50V	[M]
C523	ECJ1VB1H153K	0.015 50V	[M]
C524	F1H1H221A748	220P 50V	[M]
C525	F1H1H221A748	220P 50V	[M]
C526	F1K1V105A003	1 35V	[M]
C527	F1K1V105A003	1 35V	[M]
C529	F1H1H104A783	0.1 50V	[M]
C530	ECQV1H684JL3	0.68 50V	[M]
C531	ECQV1H684JL3	0.68 50V	[M]
C532	F1H1H104A783	0.1 50V	[M]
C533	F1H1H104A783	0.1 50V	[M]
C538	ECA0JAK101XB	100 6.3V	[M]
C540	EEUFF1V471E	470P 35V	[M]
C541	EEUFF1V471E	470P 35V	[M]
C544	EEUFF1V471E	470P 35V	[M]
C545	EEUFF1V471E	470P 35V	[M]
C550	F1H1H102A219	1000P 50V	[M]
C551	F1H1H102A219	1000P 50V	[M]
C552	ECJ1VB1A474K	0.47 10V	[M]
C553	ECJ1VB1A474K	0.47 10V	[M]
C554	ECJ1VB1A474K	0.47 10V	[M]
C555	ECJ1VB1A474K	0.47 10V	[M]
C556	F1H1H331A004	330P 50V	[M]
C557	F1H1H331A004	330P 50V	[M]
C558	F1H1H104A783	0.1 50V	[M]
C559	F1H1H104A783	0.1 50V	[M]
C560	F1K2A1040007	0.1 100V	[M]
C561	F1K2A1040007	0.1 100V	[M]
C562	F1H1H104A783	0.1 50V	[M]
C563	F1H1H104A783	0.1 50V	[M]
C565	F1H1H221A748	220P 50V	[M]
C566	F1K2A1040007	0.1 100V	[M]
C567	F1K2A1040007	0.1 100V	[M]
C568	F1K1V105A003	1 35V	[M]
C569	F1K1V105A003	1 35V	[M]
C570	F1K1H2210001	220P 50V	[M]
C571	F1K1H2210001	220P 50V	[M]
C572	ECJ1VB1H153K	0.015 50V	[M]
C573	ECJ1VB1H153K	0.015 50V	[M]
C574	F1H1H221A748	220P 50V	[M]
C575	F1H1H221A748	220P 50V	[M]
C576	F1K1V105A003	1 35V	[M]
C577	F1K1V105A003	1 35V	[M]
C579	F1H1H104A783	0.1 50V	[M]
C580	ECQV1H684JL3	0.68 50V	[M]
C581	ECQV1H684JL3	0.68 50V	[M]
C582	F1H1H104A783	0.1 50V	[M]
C583	F1H1H104A783	0.1 50V	[M]
C588	ECA0JAK101XB	100 6.3V	[M]
C594	EEUFF1V471E	470P 35V	[M]
C595	EEUFF1V471E	470P 35V	[M]
C601	ECJ1VC1H101K	100P 50V	[M]
C603	ECJ1VB1A474K	0.47 10V	[M]
C605	ECJ1VB1A474K	0.47 10V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C606	ECJ1VC1H101K	100P 50V	[M]
C607	ECJ1VC1H101K	100P 50V	[M]
C608	F1H1H104A783	0.1 50V	[M]
C609	F1H1H104A783	0.1 50V	[M]
C610	F1K2A1040007	0.1 100V	[M]
C611	F1K2A1040007	0.1 100V	[M]
C612	F1H1H104A783	0.1 50V	[M]
C613	F1H1H104A783	0.1 50V	[M]
C615	F1H1H221A748	220P 50V	[M]
C616	F1K2A1040007	0.1 100V	[M]
C617	F1K2A1040007	0.1 100V	[M]
C618	F1K1V105A003	1 35V	[M]
C619	F1K1V105A003	1 35V	[M]
C620	F1K1H2210001	220P 50V	[M]
C621	F1K1H2210001	220P 50V	[M]
C622	ECJ1VB1H153K	0.015 50V	[M]
C623	ECJ1VB1H153K	0.015 50V	[M]
C624	F1H1H221A748	220P 50V	[M]
C625	F1H1H221A748	220P 50V	[M]
C626	F1K1V105A003	1 35V	[M]
C627	F1K1V105A003	1 35V	[M]
C629	F1H1H104A783	0.1 50V	[M]
C630	ECQV1H105JL3	1 50V	[M]
C631	ECQV1H105JL3	1 50V	[M]
C632	F1H1H104A783	0.1 50V	[M]
C633	F1H1H104A783	0.1 50V	[M]
C638	ECA0JAK101XB	100 6.3V	[M]
C644	EEUFF1V471E	470P 35V	[M]
C645	EEUFF1V471E	470P 35V	[M]
C651	F1H1H102A219	1000P 50V	[M]
C653	ECJ1VB1A474K	0.47 10V	[M]
C655	ECJ1VB1A474K	0.47 10V	[M]
C656	F1H1H331A004	330P 50V	[M]
C657	F1H1H331A004	330P 50V	[M]
C658	F1H1H104A783	0.1 50V	[M]
C659	F1H1H104A783	0.1 50V	[M]
C660	F1K2A1040007	0.1 100V	[M]
C661	F1K2A1040007	0.1 100V	[M]
C662	F1H1H104A783	0.1 50V	[M]
C663	F1H1H104A783	0.1 50V	[M]
C665	F1H1H221A748	220P 50V	[M]
C666	F1K2A1040007	0.1 100V	[M]
C667	F1K2A1040007	0.1 100V	[M]
C668	F1K1V105A003	1 35V	[M]
C669	F1K1V105A003	1 35V	[M]
C670	F1K1H2210001	220P 50V	[M]
C671	F1K1H2210001	220P 50V	[M]
C672	ECJ1VB1H153K	0.015 50V	[M]
C673	ECJ1VB1H153K	0.015 50V	[M]
C674	F1H1H221A748	220P 50V	[M]
C675	F1H1H221A748	220P 50V	[M]
C676	F1K1V105A003	1 35V	[M]
C677	F1K1V105A003	1 35V	[M]
C679	F1H1H104A783	0.1 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C680	**ECQV1H105JL3**	**1 50V**	**[M]**
C681	**ECQV1H105JL3**	**1 50V**	**[M]**
C682	**F1H1H104A783**	**0.1 50V**	**[M]**
C683	**F1H1H104A783**	**0.1 50V**	**[M]**
C688	**ECA0JAK101XB**	**100 6.3V**	**[M]**
C694	**EEUFF1V471E**	**470P 35V**	**[M]**
C695	**EEUFF1V471E**	**470P 35V**	**[M]**
C701	**ECQU2A104MLC**	**0.1 100V**	**[M]**
C703	**F1BAF1020020**	**1000P 10V**	**[M]** ⚠
C704	**F1BAF1020020**	**1000P 10V**	**[M]** ⚠
C705	**F1BAF1020020**	**1000P 10V**	**[M]**
C706	**ECQU2A104MLC**	**0.1 100V**	**[M]** ⚠
C707	**ECEC2DB821DJ**	**820 250V**	**[M]GT**
C707	**F2B2G4710006**	**470P 250V**	**[M]GN**
C708	**F1J2E1030004**	**0.01 250V**	**[M]**
C709	**F1H1H471A219**	**470P 50V**	**[M]**
C710	**ECKE3D821KBP**	**820P 2000**	**[M]GN**
C710	**ECQP6332JUB**	**CAPACITOR**	**[M]GT**
C711	**ECA1HAM470XB**	**47 50V**	**[M]**
C712	**F1H1H221A748**	**220P 50V**	**[M]**
C713	**F1H1H102A219**	**1000P 50V**	**[M]**
C714	**F1BAF1020020**	**1000P 10V**	**[M]** ⚠
C725	**ECA2GHG4R7B**	**4.7 250V**	**[M]**
C726	**F1B2H1820001**	**1800P 500V**	**[M]**
C727	**F1H1H102A219**	**1000P 50V**	**[M]**
C728	**ECJ2FB1H104K**	**0.1 50V**	**[M]**
C729	**ECA1HAK010XB**	**1 50V**	**[M]**
C730	**F2A1A2210063**	**220P 10V**	**[M]**
C731	**F1J2E1020002**	**1000P 250V**	**[M]**
C732	**F1BAF1020020**	**1000P 10V**	**[M]**
C736	**F1BAF1020020**	**1000P 10V**	**[M]GT** ⚠
C736	**F1BAF471A013**	**470 10V**	**[M]GN** ⚠
C737	**F1BAF1020020**	**1000P 10V**	**[M]GT** ⚠
C737	**F1BAF471A013**	**470 10V**	**[M]GN** ⚠
C800	**F1J2E1030004**	**0.01 250V**	**[M]**
C801	**F1J2A331A030**	**330P 100V**	**[M]**
C802	**F1H1H104A783**	**0.1 50V**	**[M]**
C803	**F1H1H471A219**	**470P 50V**	**[M]**
C804	**ECA1VHG102E**	**1000 35V**	**[M]**
C805	**F2A1C681A624**	**680P 16V**	**[M]**
C806	**F2A1C681A624**	**680P 16V**	**[M]**
C807	**F2A1C681A624**	**680P 16V**	**[M]**
C808	**F2A1C1210012**	**120P 16V**	**[M]**
C809	**F1H1H104A783**	**0.1 50V**	**[M]**
C810	**F2A1C681A624**	**680P 16V**	**[M]**
C811	**F2A1C1210012**	**120P 16V**	**[M]**
C812	**F2A1C1210012**	**120P 16V**	**[M]**
C813	**F2A1C1210012**	**120P 16V**	**[M]**
C814	**F1H1H102A219**	**1000P 50V**	**[M]**
C815	**ECA1HAM101XB**	**100 50V**	**[M]**
C817	**F1H1H102A219**	**1000P 50V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C818	F1H1H102A219	1000P 50V	[M]
C819	ECA1HAM101XB	100 50V	[M]
C820	ECA1HAM101XB	100 50V	[M]
C824	F1H1H104A783	0.1 50V	[M]
C825	F1H1H104A783	0.1 50V	[M]
C828	F1J2E1030004	0.01 250V	[M]
C853	ECJ1VB1H682K	6800P 50V	[M]
C857	F2A1H2200032	22P 50V	[M]
C859	EEUFF1V561E	560P 35V	[M]
C860	EEUFF1V561E	560P 35V	[M]
C861	EEUFF1V561E	560P 35V	[M]
C862	F2A1A2210063	220P 10V	[M]
C865	F1H1H102A219	1000P 50V	[M]
C866	F1J2E1030004	0.01 250V	[M]
C867	F1J2E1030004	0.01 250V	[M]
C868	F1J2E1030004	0.01 250V	[M]
C869	F1J2E1030004	0.01 250V	[M]
C870	F1H1H102A219	1000P 50V	[M]
C871	F2A1H2200032	22P 50V	[M]
C880	F1H1H103A219	0.01 50V	[M]
C881	ECA1CAK220XB	22 16V	[M]
C882	ECJ1VB1H104K	0.1 50V	[M]
C883	F1H1H103A219	0.01 50V	[M]
C884	ECJ1VB1H104K	0.1 50V	[M]
C885	ECA1CAK220XB	22 16V	[M]
C886	ECJ1VB1H104K	0.1 50V	[M]
C887	F1H1H103A219	0.01 50V	[M]
C1001	ECA1HAK010XB	1 50V	[M]
C1001	ECJ1VB1A184K	0.18 10V	[M]
C1002	ECJ1VB1A184K	0.18 10V	[M]
C1002	F1H1C104A008	0.1 16V	[M]
C1003	ECA0JAK101XB	100 6.3V	[M]
C1003	ECJ1VB1A184K	0.18 10V	[M]
C1004	ECA1HAK010XB	1 50V	[M]
C1005	ECA1HAK010XB	1 50V	[M]
C1006	ECJ1VB1A184K	0.18 10V	[M]
C1006	F1H1C104A008	0.1 16V	[M]
C1007	ECJ1VB1A184K	0.18 10V	[M]
C1007	F1H1C104A008	0.1 16V	[M]
C1008	ECA1HAK2R2XB	2.2 50V	[M]
C1009	F1H1H471A219	470P 50V	[M]
C1010	F1H1H103A219	0.01 50V	[M]
C1011	ECA0JAK101XB	100 6.3V	[M]
C1012	F1H1C104A008	0.1 16V	[M]
C1013	F1H1C104A008	0.1 16V	[M]
C1015	F1H1H101A230	100P 50V	[M]
C1016	F1H1H101A230	100P 50V	[M]
C1017	F1H1H101A230	100P 50V	[M]
C1018	F1H1H102A219	1000P 50V	[M]
C1019	F1H1H102A219	1000P 50V	[M]
C1020	F1H1C104A008	0.1 16V	[M]
C1021	F1H1C104A008	0.1 16V	[M]
C1022	F1H1C104A008	0.1 16V	[M]
C1023	F1H1H220A230	22P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1024	ECA0JAK101XB	100 6.3V	[M]
C1025	F1H1H220A230	22P 50V	[M]
C1026	F1H1C104A008	0.1 16V	[M]
C1027	F1H1H101A230	100P 50V	[M]
C1101	ECA1CAK100XB	10 16V	[M]
C1102	F1H1C104A008	0.1 16V	[M]
C1103	F1H1C104A008	0.1 16V	[M]
C1104	F1H1C104A008	0.1 16V	[M]
C1105	ECA1CAK100XB	10 16V	[M]
C1106	ECJ1VB1H682K	6800P 50V	[M]
C1107	F1H1C104A008	0.1 16V	[M]
C1108	ECJ1VC1H102J	1000P 50V	[M]
C1110	ECA1CAK100XB	10 16V	[M]
C1111	F1H1C104A008	0.1 16V	[M]
C1117	F1H1H272A013	2700P 50V	[M]
C1118	F1H1H272A013	2700P 50V	[M]
C1119	F1H1C104A008	0.1 16V	[M]
C1120	F1H1C104A008	0.1 16V	[M]
C1121	F1H1C104A008	0.1 16V	[M]
C1122	ECA1CAK101XB	100 16V	[M]
C1123	ECA1HPX100B	10 50V	[M]
C1124	ECA1HPX100B	10 50V	[M]
C1125	F1H1H101A230	100P 50V	[M]
C1126	F1H1H103A219	0.01 50V	[M]
C1127	ECJ1VB1H561K	560P 50V	[M]
C1128	ECJ1VB1H561K	560P 50V	[M]
C1129	ECJ1VB1H561K	560P 50V	[M]
C1130	ECJ1VB1H561K	560P 50V	[M]
C1131	ECA1CAK101XB	100 16V	[M]
C1132	ECA1CAK101XB	100 16V	[M]
C1201	ECJ1VB1H182K	1800P 50V	[M]
C1202	ECJ1VB1H562K	5600P 50V	[M]
C1203	ECJ1VB1H182K	1800P 50V	[M]
C1204	ECJ1VB1H562K	5600P 50V	[M]
C1205	ECJ1VB1H182K	1800P 50V	[M]
C1206	ECJ1VB1H562K	5600P 50V	[M]
C1207	ECJ1VB1H562K	5600P 50V	[M]
C1208	ECJ1VB1H182K	1800P 50V	[M]
C1209	ECJ1VB1H562K	5600P 50V	[M]
C1210	ECJ1VB1H182K	1800P 50V	[M]
C1211	ECJ1VB1H562K	5600P 50V	[M]
C1212	ECJ1VB1H182K	1800P 50V	[M]
C1213	ECA1CAK220XB	22 16V	[M]
C1214	ECA1CAK220XB	22 16V	[M]
C1215	ECA1CAK220XB	22 16V	[M]
C1216	ECJ1VB1H122K	1200P 50V	[M]
C1217	ECA1CAK220XB	22 16V	[M]
C1218	ECJ1VB1H122K	1200P 50V	[M]
C1219	ECA1CAK220XB	22 16V	[M]
C1220	ECJ1VB1H122K	1200P 50V	[M]
C1221	ECA1CAK220XB	22 16V	[M]
C1222	ECJ1VB1H122K	1200P 50V	[M]
C1223	ECJ1VB1H122K	1200P 50V	[M]
C1224	ECJ1VB1H122K	1200P 50V	[M]

Ref. No.	Part No.	Part Name & Description	Remarks
C1225	**F1H1H391A013**	**390P 50V**	**[M]**
C1226	**F1H1H391A013**	**390P 50V**	**[M]**
C1227	**F1H1H391A013**	**390P 50V**	**[M]**
C1228	**F1H1H391A013**	**390P 50V**	**[M]**
C1229	**F1H1H391A013**	**390P 50V**	**[M]**
C1230	**F1H1H391A013**	**390P 50V**	**[M]**
C1231	**ECA1CAK100XB**	**10 16V**	**[M]**
C1232	**ECA1CAK100XB**	**10 16V**	**[M]**
C1233	**ECA1CAK100XB**	**10 16V**	**[M]**
C1234	**ECA1CAK100XB**	**10 16V**	**[M]**
C1235	**ECA1CAK100XB**	**10 16V**	**[M]**
C1236	**ECA1CAK100XB**	**10 16V**	**[M]**
C1237	**F1H1H103A219**	**0.01 50V**	**[M]**
C1238	**F1H1H103A219**	**0.01 50V**	**[M]**
C1239	**F1H1H103A219**	**0.01 50V**	**[M]**
C1240	**F1H1H103A219**	**0.01 50V**	**[M]**
C1241	**F1H1H103A219**	**0.01 50V**	**[M]**
C1242	**F1H1H103A219**	**0.01 50V**	**[M]**
C1243	**F1H1H101A230**	**100P 50V**	**[M]**
C1245	**ECA1EAK470XB**	**47 25V**	**[M]**
C1246	**ECA1EAK470XB**	**47 25V**	**[M]**
C1261	**ECA1HAK2R2XB**	**2.2 50V**	**[M]**
C1262	**ECA1HAK2R2XB**	**2.2 50V**	**[M]**
C1301	**F1H1H103A219**	**0.01 50V**	**[M]**
C1302	**F1H1H104A783**	**0.1 50V**	**[M]**
C1303	**F1H1H103A219**	**0.01 50V**	**[M]**
C1304	**F1H1H104A783**	**0.1 50V**	**[M]**
C1305	**F1H1C104A008**	**0.1 16V**	**[M]**
C1306	**F1H1C104A008**	**0.1 16V**	**[M]**
C1307	**F1H1C104A008**	**0.1 16V**	**[M]**
C1308	**ECA0JAK101XB**	**100 6.3V**	**[M]**
C1309	**F1H1H103A219**	**0.01 50V**	**[M]**
C1310	**F1H1C104A008**	**0.1 16V**	**[M]**
C1311	**F1H1C104A008**	**0.1 16V**	**[M]**
C1412	**F1H1H101A230**	**100P 50V**	**[M]**
C1530	**F1H1C104A008**	**0.1 16V**	**[M]**
C1540	**F1H1C104A008**	**0.1 16V**	**[M]**
C1550	**ECJ1VC1H330J**	**33P 50V**	**[M]**
C1551	**ECJ1VC1H330J**	**33P 50V**	**[M]**
C1580	**ECA1HAK010XB**	**1 50V**	**[M]**
C1590	**ECA1HAK100XB**	**10 50V**	**[M]**
C1620	**ECA1HAK100XB**	**10 50V**	**[M]**
C1630	**ECA1HAK100XB**	**10 50V**	**[M]**
C1660	**ECA1HAK100XB**	**10 50V**	**[M]**
C1670	**ECA1HAK100XB**	**10 50V**	**[M]**
C1680	**ECA1HAK2R2XB**	**2.2 50V**	**[M]**
C1681	**ECA1HAK2R2XB**	**2.2 50V**	**[M]**
C1701	**ECA1CAK220XB**	**22 16V**	**[M]**
C1702	**F1H1H391A013**	**390P 50V**	**[M]**
C1703	**ECA1CAK100XB**	**10 16V**	**[M]**
C1704	**F1H1H103A219**	**0.01 50V**	**[M]**
C1705	**ECA1CAK101XB**	**100 16V**	**[M]**
C1706	**ECA1AM332E**	**3300 10V**	**[M]**
C2040	**F1H1C104A008**	**0.1 16V**	**[M]**

Ref. No.	Part No.	Part Name & Description	Remarks
C2400	ECA1CAK100XB	10 16V	[M]
C2401	ECA1CAK100XB	10 16V	[M]
C2402	ECA1CAK100XB	10 16V	[M]
C2403	ECA1CAK100XB	10 16V	[M]
C4070	F1H1C104A008	0.1 16V	[M]
C4071	F1H1C104A008	0.1 16V	[M]
C4101	F1H1H102A219	1000P 50V	[M]
C4143	F1H1E103A029	0.01 25V	[M]
C5001	ECA1CAK330XB	33 16V	[M]
C5002	ECA1CAK330XB	33 16V	[M]
C5003	ECA1CAK330XB	33 16V	[M]
C5004	F1H1H104A783	0.1 50V	[M]
C5005	F1K2A1040007	0.1 100V	[M]
C5006	F1K2A1040007	0.1 100V	[M]
C5007	F1K2A1040007	0.1 100V	[M]
C5008	F1K2A1040007	0.1 100V	[M]
C5400	F1H1H471A219	470P 50V	[M]
C5401	F1H1H101A230	100P 50V	[M]
C5402	F1H1H101A230	100P 50V	[M]
C5403	F1H1H101A230	100P 50V	[M]
C5405	F1H1H104A783	0.1 50V	[M]
C5406	F1H1H101A230	100P 50V	[M]
C5407	F1H1H104A783	0.1 50V	[M]
C5408	ECA1CAK100XB	10 16V	[M]
C5500	ECA1CAK100XB	10 16V	[M]
C5501	ECA1HAK2R2XB	2.2 50V	[M]
C5503	ECA1CAK330XB	33 16V	[M]
C5504	ECA0JAK101XB	100 6.3V	[M]
C5505	ECA1AAK221XB	220 10V	[M]
C5506	ECA1CAK100XB	10 16V	[M]
C5507	ECA1CAK100XB	10 16V	[M]
C5508	EEUFF1V471E	470P 35V	[M]
C5509	EEUFF1V471E	470P 35V	[M]
C5801	ECQB1H222JF3	2200P 50V	[M]

PRT0603D/S/M/A/P

SCHEMATIC DIAGRAM - 4

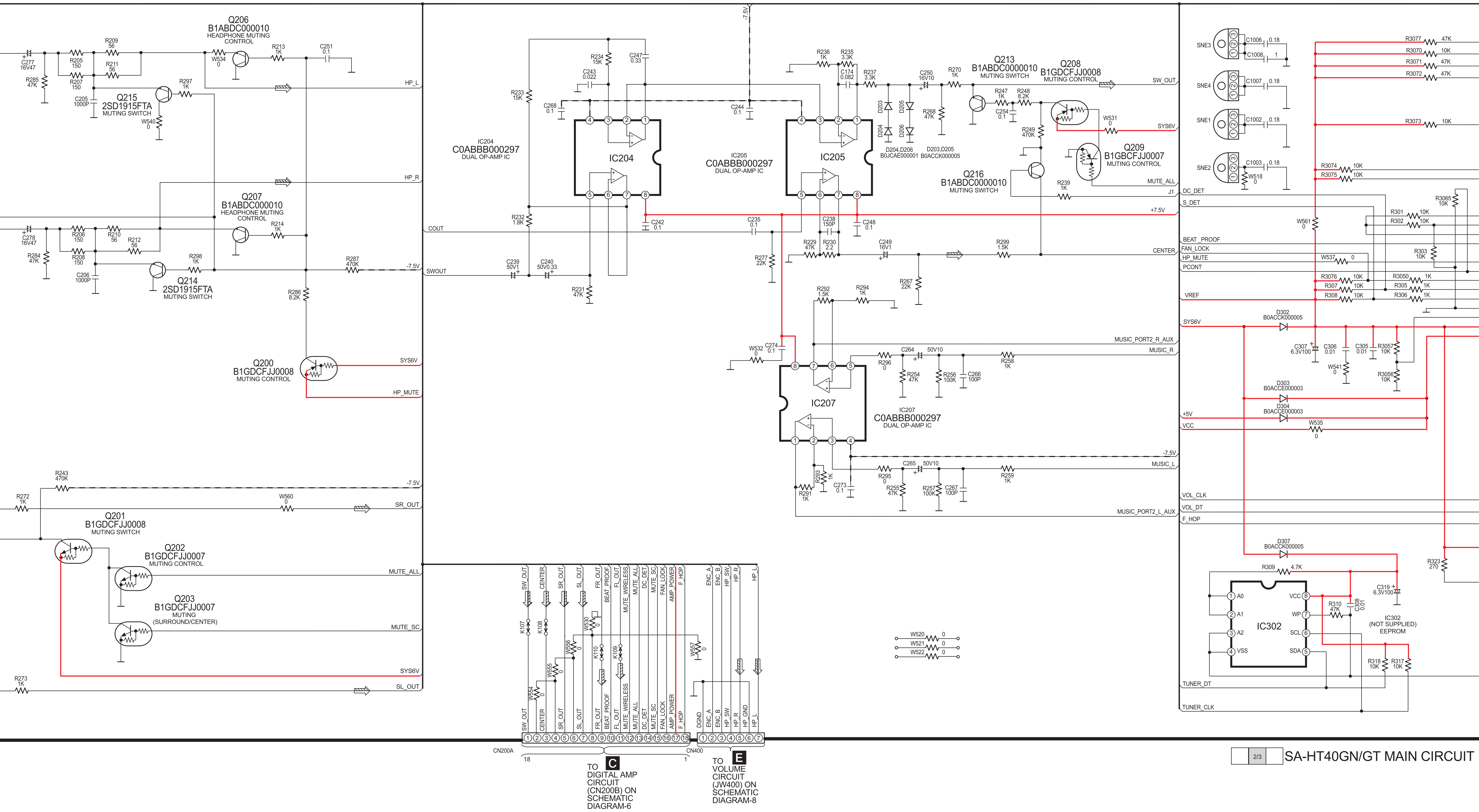
B MAIN CIRCUIT

: +B SIGNAL LINE

: -B SIGNAL LINE

: MAIN SIGNAL LINE

: AUX SIGNAL LINE

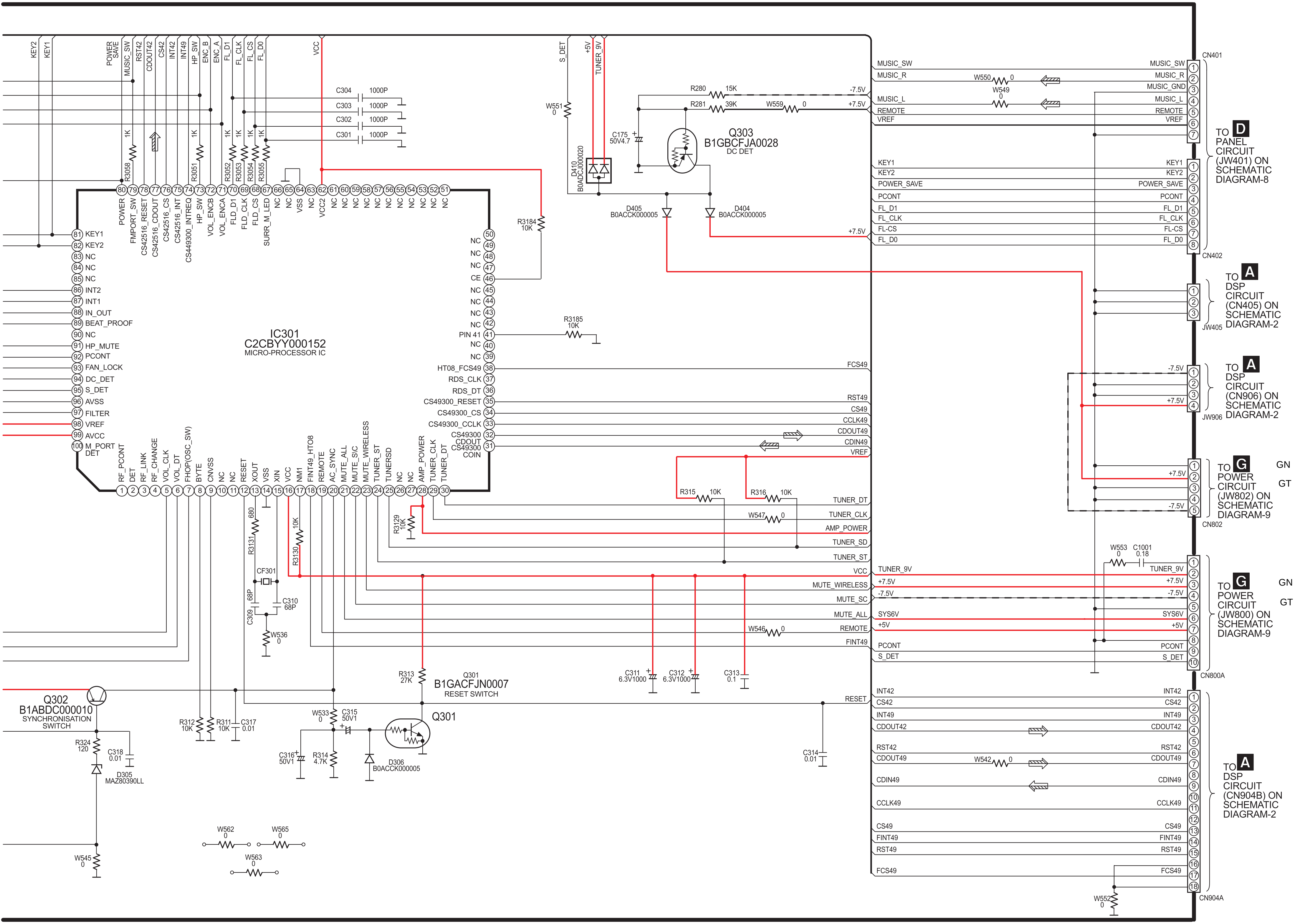

Q206
B1ABDC000010
HEADPHONE MUTING CONTROL
Q207
B1ABDC000010
HEADPHONE MUTING CONTROL
Q215
2SD1915FTA
MUTING SWITCH
Q214
2SD1915FTA
MUTING SWITCH
Q200
B1GDCFJJ0008
MUTING CONTROL
Q201
B1GDCFJJ0008
MUTING SWITCH
Q202
B1GDCFJJ0007
MUTING CONTROL
Q203
B1GDCFJJ0007
MUTING (SURROUND/CENTER)
IC204
C0ABBB000297
DUAL OP-AMP IC
IC205
C0ABBB000297
DUAL OP-AMP IC
IC207
C0ABBB000297
DUAL OP-AMP IC
Q213
B1ABDC0000010
MUTING SWITCH
Q208
B1GDCFJJ0008
MUTING CONTROL
Q209
B1GBCFJJ0007
MUTING CONTROL
Q216
B1ABDC0000010
MUTING SWITCH
D204,D206
B0JCAE000001
D203,D205
B0ACCK000005
D302
B0ACCK000005
D303
B0ACCE000003
D304
B0ACCE000003
D307
B0ACCK000005
IC302
IC302
(NOT SUPPLIED)
EEPROM
A0
A1
A2
VSS
VCC
WP
SCL
SDA
SNE3
SNE4
SNE1
SNE2
HP_L
HP_R
COUT
SWOUT
-7.5V
SYS6V
HP_MUTE
SR_OUT
MUTE_ALL
MUTE_SC
SL_OUT
SW_OUT
CENTER
MUTE_ALL
J1
+7.5V
MUSIC_PORT2_R_AUX
MUSIC_R
MUSIC_L
MUSIC_PORT2_L_AUX
DC_DET
S_DET
BEAT_PROOF
FAN_LOCK
HP_MUTE
PCONT
VREF
SYS6V
+5V
VCC
VOL_CLK
VOL_DT
F_HOP
TUNER_DT
TUNER_CLK
SW_OUT
CENTER
SR_OUT
SL_OUT
FR_OUT
BEAT_PROOF
FL_OUT
MUTE_WIRELESS
MUTE_ALL
DC_DET
MUTE_SC
FAN_LOCK
AMP_POWER
F_HOP
ENC_A
ENC_B
HP_SW
HP_R
HP_L
DGND
HP_GND
K107
K108
K109
K110
W530
W554
W555
W556
W557
W520 0
W521 0
W522 0
CN200A
CN400
18
1
TO **C** DIGITAL AMP CIRCUIT (CN200B) ON SCHEMATIC DIAGRAM-6
TO **E** VOLUME CIRCUIT (JW400) ON SCHEMATIC DIAGRAM-8
2/3

SA-HT40GN/GT MAIN CIRCUIT

SCHEMATIC DIAGRAM - 5

B MAIN CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE
: AUX SIGNAL LINE


IC301
C2CBYY000152
MICRO-PROCESSOR IC
Q303
B1GBCFJA0028
DC DET
Q301
B1GACFJN0007
RESET SWITCH
Q302
B1ABDC000010
SYNCHRONISATION SWITCH
D410 B0ADCJ000020
D405 B0ACCK000005
D404 B0ACCK000005
D306 B0ACCK000005
D305 MAZ80390LL
CF301
R3184 10K
R3185 10K
R280 15K
R281 39K
W559 0
W551 0
W550 0
W549 0
C175 50V4.7
C304 1000P
C303 1000P
C302 1000P
C301 1000P
R3058 1K
R3051 1K
R3052 1K
R3053 1K
R3054 1K
R3055 1K
R3131 680
R3130 10K
R3129 10K
R315 10K
R316 10K
W547 0
W546 0
W536 0
C309 68P
C310 68P
C311 6.3V1000
C312 6.3V1000
C313 0.1
C314 0.01
R313 27K
W533 0
C315 50V1
C316 50V1
R314 4.7K
R312 10K
R311 10K
C317 0.01
R324 120
C318 0.01
W545 0
W562 0
W565 0
W563 0
W553 0
C1001 0.18
W542 0
W552 0
KEY2
KEY1
POWER SAVE
MUSIC_SW
RST42
CDOUT42
CS42
INT42
INT49
HP_SW
ENC_B
ENC_A
FL_D1
FL_CLK
FL_CS
FL_D0
VCC
S_DET
+5V
TUNER_9V
80 POWER
79 FMPORT_SW
78 CS42516_RESET
77 CS42516_CDOUT
76 CS42516_CS
75 CS42516_INT
74 CS49300_INTREQ
73 HP_SW
72 VOL_ENCB
71 VOL_ENCA
70 FLD_D1
69 FLD_CLK
68 FLD_CS
67 SURR_M_LED
66 NC
65 NC
64 VSS
63 NC
62 VCC2
61 NC
60 NC
59 NC
58 NC
57 NC
56 NC
55 NC
54 NC
53 NC
52 NC
51 NC
81 KEY1
82 KEY2
83 NC
84 NC
85 NC
86 INT2
87 INT1
88 IN_OUT
89 BEAT_PROOF
90 NC
91 HP_MUTE
92 PCONT
93 FAN_LOCK
94 DC_DET
95 S_DET
96 AVSS
97 FILTER
98 VREF
99 AVCC
100 M_PORT DET
50 NC
49 NC
48 NC
47 NC
46 CE
45 NC
44 NC
43 NC
42 NC
41 PIN 41
40 NC
39 NC
38 HT08_FCS49
37 RDS_CLK
36 RDS_DT
35 CS49300_RESET
34 CS49300_CS
33 CS49300_CCLK
32 CS49300 CDOUT
31 CS49300 COIN
1 RF_PCONT
2 DET
3 RF_LINK
4 RF_CHANGE
5 VOL_CLK
6 VOL_DT
7 FHOP(OSC_SW)
8 BYTE
9 CNVSS
10 NC
11 NC
12 RESET
13 XOUT
14 VSS
15 XIN
16 VCC
17 NM1
18 FINT49_HT08
19 REMOTE
20 AC_SYNC
21 MUTE_ALL
22 MUTE_SIC
23 MUTE_WIRELESS
24 TUNER_ST
25 TUNERSD
26 NC
27 NC
28 AMP_POWER
29 TUNER_CLK
30 TUNER_DT
-7.5V
+7.5V
FCS49
RST49
CS49
CCLK49
CDOUT49
CDIN49
VREF
TUNER_DT
TUNER_CLK
AMP_POWER
TUNER_SD
TUNER_ST
VCC
MUTE_WIRELESS
MUTE_SC
MUTE_ALL
REMOTE
FINT49
RESET
CN401
MUSIC_SW 1
MUSIC_R 2
MUSIC_GND 3
MUSIC_L 4
REMOTE 5
VREF 6
7
CN402
KEY1 1
KEY2 2
POWER_SAVE 3
PCONT 4
FL_D1 5
FL_CLK 6
FL-CS 7
FL_D0 8
TO D PANEL CIRCUIT (JW401) ON SCHEMATIC DIAGRAM-8
JW405
TO A DSP CIRCUIT (CN405) ON SCHEMATIC DIAGRAM-2
JW906
-7.5V
+7.5V
TO A DSP CIRCUIT (CN906) ON SCHEMATIC DIAGRAM-2
CN802
+7.5V
-7.5V
TO G POWER CIRCUIT (JW802) ON SCHEMATIC DIAGRAM-9
GN
GT
CN800A
TUNER_9V 1
+7.5V 2
-7.5V 3
4
SYS6V 5
+5V 6
7
PCONT 8
S_DET 9
10
TO G POWER CIRCUIT (JW800) ON SCHEMATIC DIAGRAM-9
GN
GT
CN904A
INT42 1
CS42 2
INT49 3
CDOUT42 4
5
RST42 6
CDOUT49 7
8
CDIN49 9
10
CCLK49 11
12
CS49 13
FINT49 14
RST49 15
16
FCS49 17
18
TO A DSP CIRCUIT (CN904B) ON SCHEMATIC DIAGRAM-2

3/3 SA-HT40GN/GT MAIN CIRCUIT

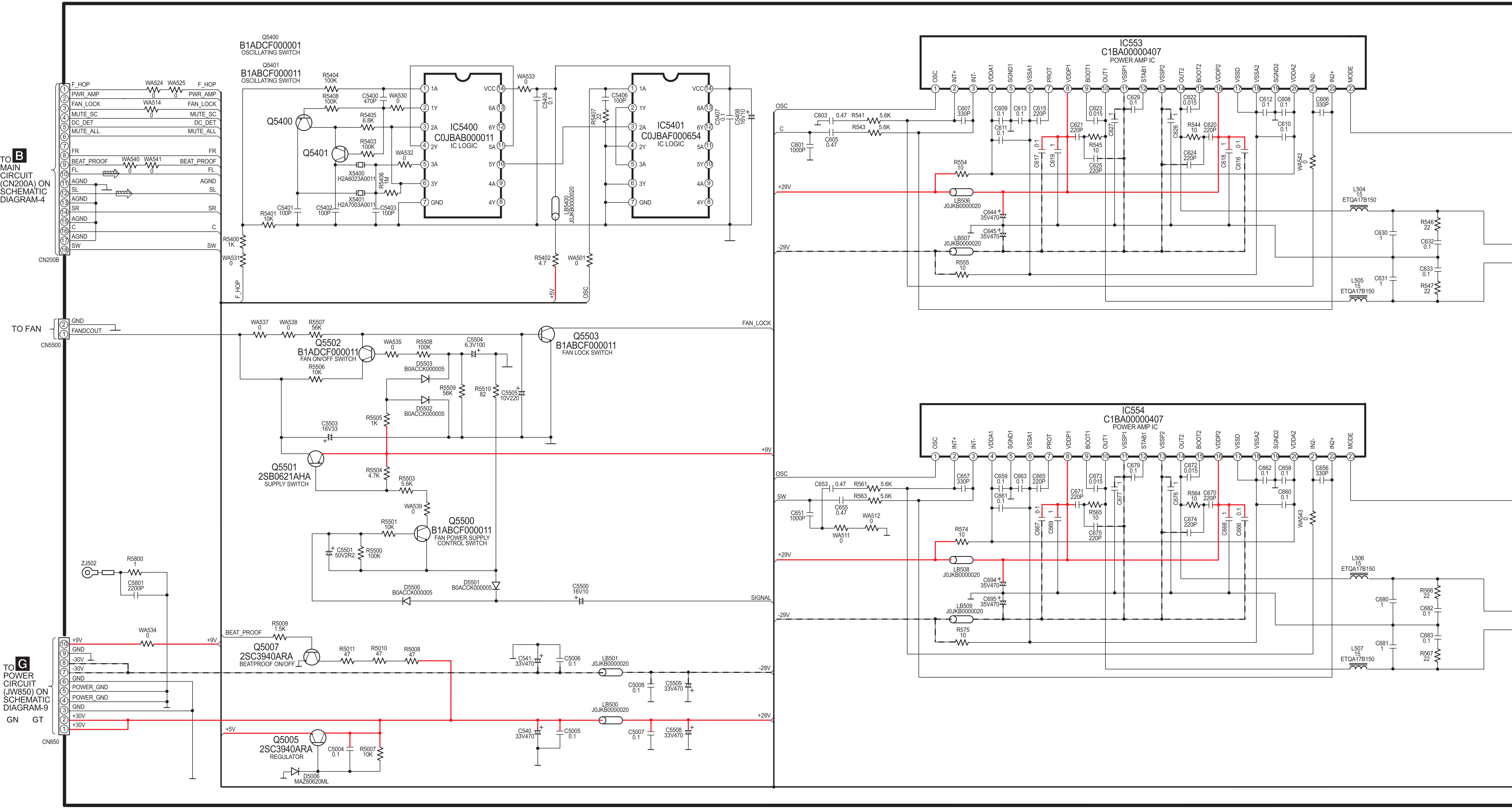
SCHEMATIC DIAGRAM - 6

C DIGITAL AMP CIRCUIT

: +B SIGNAL LINE

: -B SIGNAL LINE

: MAIN SIGNAL LINE


TO B MAIN CIRCUIT (CN200A) ON SCHEMATIC DIAGRAM-4
CN200B
F_HOP
PWR_AMP
FAN_LOCK
MUTE_SC
DC_DET
MUTE_ALL
FR
BEAT_PROOF
FL
AGND
SL
SR
C
SW
WA524 0
WA525 0
WA514 0
WA540 0
WA541 0
Q5400 B1ADCF000001 OSCILLATING SWITCH
Q5401 B1ABCF000011 OSCILLATING SWITCH
R5404 100K
R5408 100K
C5400 470P
WA530 0
R5405 6.8K
R5403 100K
WA532 0
X5400 H2A6023A0011
X5401 H2A7003A0011
R5406 1M
C5401 100P
C5402 100P
C5403 100P
R5401 10K
R5400 1K
WA531 0
IC5400 C0JBAB000011 IC LOGIC
1A 1Y 2A 2Y 3A 3Y GND VCC 6A 6Y 5A 5Y 4A 4Y
WA533 0
C5405 0.1
C5406 100P
R5407 22
IC5401 C0JBAF000654 IC LOGIC
C5407 0.1
C5408 16V10
LB5400 J0JKB0000020
R5402 4.7
WA501 0
F_HOP
+5V
OSC
TO FAN
CN5500
GND
FANDCOUT
WA537 0
WA538 0
R5507 56K
Q5502 B1ADCF000011 FAN ON/OFF SWITCH
WA535 0
R5508 100K
C5504 6.3V100
R5506 10K
D5503 B0ACCK000005
R5509 56K
R5510 82
C5505 10V220
D5502 B0ACCK000005
R5505 1K
C5503 16V33
Q5503 B1ABCF000011 FAN LOCK SWITCH
FAN_LOCK
Q5501 2SB0621AHA SUPPLY SWITCH
R5504 4.7K
R5503 5.6K
WA539 0
R5501 10K
Q5500 B1ABCF000011 FAN POWER SUPPLY CONTROL SWITCH
C5501 50V2R2
R5500 100K
D5500 B0ACCK000005
D5501 B0ACCK000005
C5500 16V10
SIGNAL
+9V
ZJ502
R5800 1
C5801 2200P
TO G POWER CIRCUIT (JW850) ON SCHEMATIC DIAGRAM-9
GN GT
CN850
+9V
GND
-30V
-30V
GND
POWER_GND
POWER_GND
GND
+30V
+30V
WA534 0
BEAT_PROOF
R5009 1.5K
Q5007 2SC3940ARA BEATPROOF ON/OFF
R5011 47
R5010 47
R5008 47
C541 33V470
C5006 0.1
LB501 J0JKB0000020
C5008 0.1
C5509 33V470
-29V
+5V
Q5005 2SC3940ARA REGULATOR
C5004 0.1
R5007 10K
D5006 MAZ80620ML
C540 33V470
C5005 0.1
LB500 J0JKB0000020
C5007 0.1
C5508 33V470
+29V
IC553 C1BA00000407 POWER AMP IC
OSC INT+ INT- VDDA1 SGND1 VSSA1 PROT VDDP1 BOOT1 OUT1 VSSP1 STAB1 VSSP2 OUT2 BOOT2 VDDP2 VSSD VSSA2 SGND2 VDDA2 IN2- IN2+ MODE
OSC
C
C603 0.47
R541 5.6K
R543 5.6K
C601 1000P
C605 0.47
C607 330P
C609 0.1
C613 0.1
C615 220P
C611 0.1
C617 0.1
C619 1
C621 220P
C623 0.015
C627 1
R545 10
C625 220P
C629 0.1
C626 1
C622 0.015
R544 10
C620 220P
C624 220P
C618 1
C616 0.1
C612 0.1
C608 0.1
C610 0.1
C606 330P
WA542 0
R554 10
+29V
LB506 J0JKB0000020
C644 35V470
C645 35V470
LB507 J0JKB0000020
-29V
R555 10
L504 15 ETQA17B150
C630 1
R546 22
C632 0.1
C633 0.1
C631 1
L505 15 ETQA17B150
R547 22
IC554 C1BA00000407 POWER AMP IC
OSC
SW
C653 0.47
R561 5.6K
R563 5.6K
C651 1000P
C655 0.47
WA512 0
WA511 0
C657 330P
C659 0.1
C663 0.1
C665 220P
C661 0.1
C667 0.1
C669 1
C671 220P
C673 0.015
C677 1
R565 10
C675 220P
C679 0.1
C676 1
C672 0.015
R564 10
C670 220P
C674 220P
C668 1
C666 0.1
C662 0.1
C658 0.1
C660 0.1
C656 330P
WA543 0
R574 10
LB508 J0JKB0000020
C694 35V470
C695 35V470
LB509 J0JKB0000020
R575 10
L506 15 ETQA17B150
C680 1
R566 22
C682 0.1
C683 0.1
C681 1
L507 15 ETQA17B150
R567 22

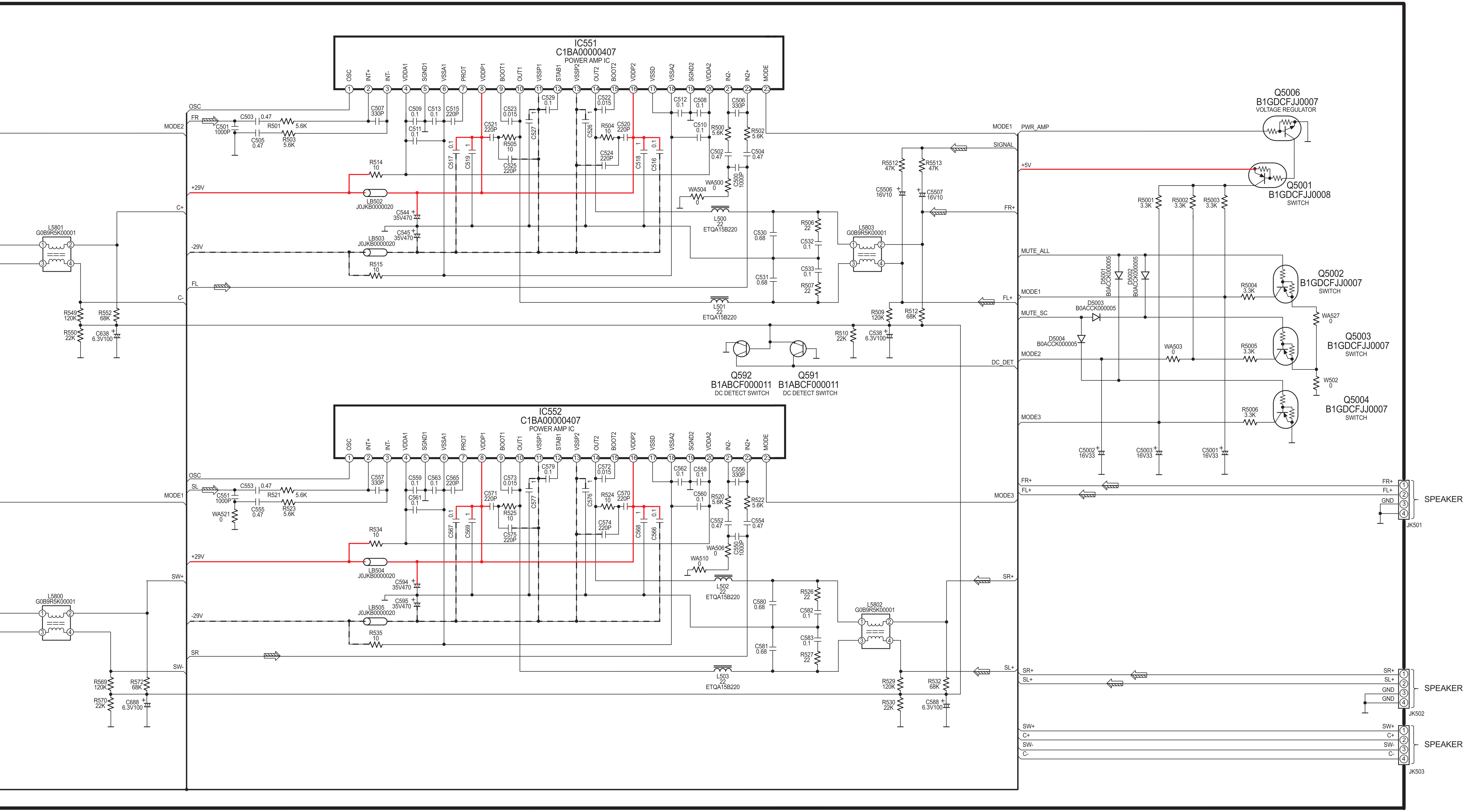
SCHEMATIC DIAGRAM - 7

C DIGITAL AMP CIRCUIT

: +B SIGNAL LINE

: -B SIGNAL LINE

: MAIN SIGNAL LINE

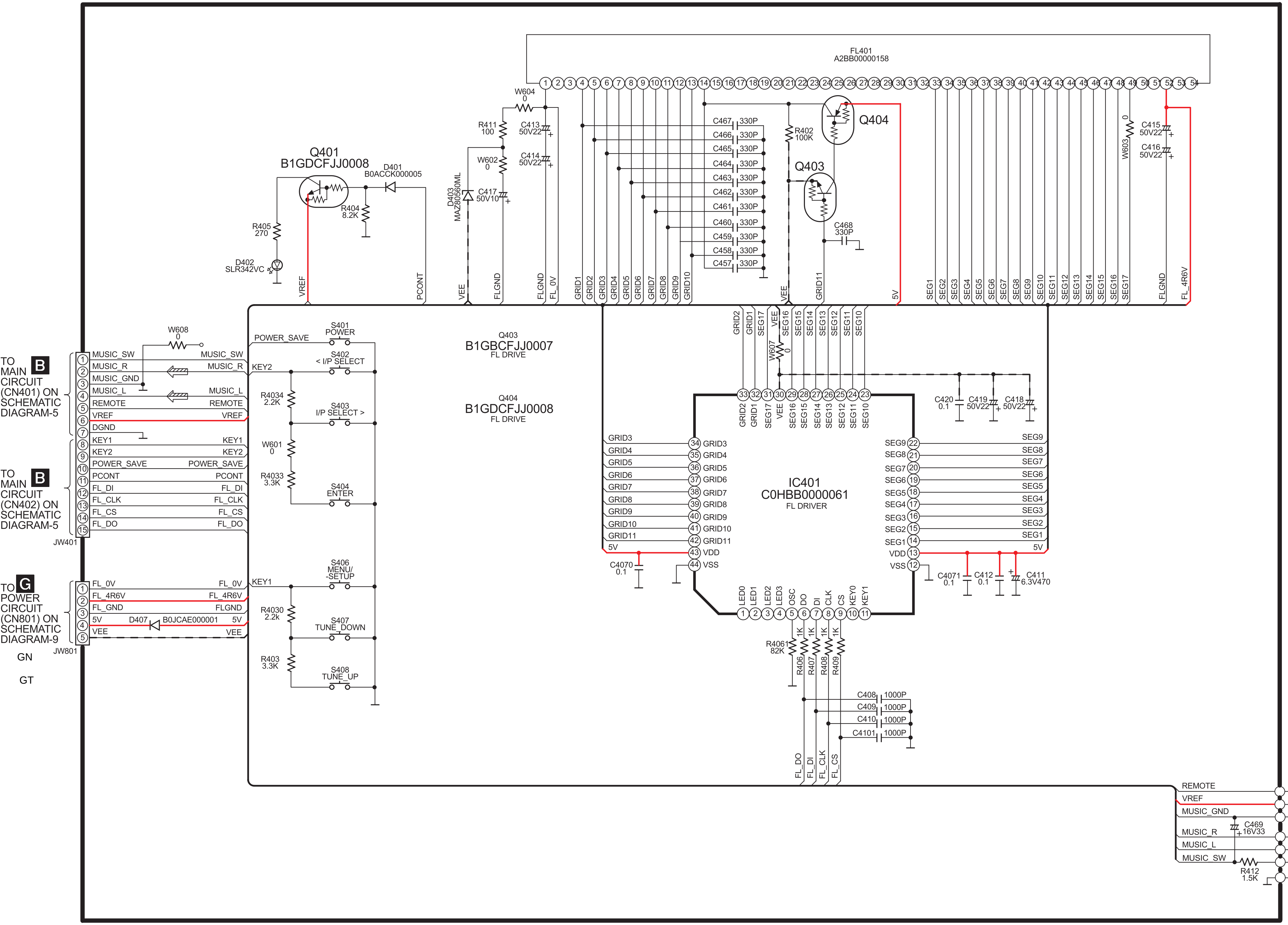

IC551
C1BA00000407
POWER AMP IC
OSC
INT+
INT-
VDDA1
SGND1
VSSA1
PROT
VDDP1
BOOT1
OUT1
VSSP1
STAB1
VSSP2
OUT2
BOOT2
VDDP2
VSSD
VSSA2
SGND2
VDDA2
IN2-
IN2+
MODE
IC552
C1BA00000407
POWER AMP IC
Q5006
B1GDCFJJ0007
VOLTAGE REGULATOR
Q5001
B1GDCFJJ0008
SWITCH
Q5002
B1GDCFJJ0007
SWITCH
Q5003
B1GDCFJJ0007
SWITCH
Q5004
B1GDCFJJ0007
SWITCH
Q592
B1ABCF000011
DC DETECT SWITCH
Q591
B1ABCF000011
DC DETECT SWITCH
L5801
G0B9R5K00001
L5803
G0B9R5K00001
L5800
G0B9R5K00001
L5802
G0B9R5K00001
L500
22
ETQA15B220
L501
22
ETQA15B220
L502
22
ETQA15B220
L503
22
ETQA15B220
LB502
J0JKB0000020
LB503
J0JKB0000020
LB504
J0JKB0000020
LB505
J0JKB0000020
D5001
B0ACCK000005
D5002
B0ACCK000005
D5003
B0ACCK000005
D5004
B0ACCK000005
OSC
FR
FL
SL
SR
MODE1
MODE2
MODE3
+29V
-29V
C+
C-
SW+
SW-
PWR_AMP
SIGNAL
+5V
FR+
FL+
SR+
SL+
MUTE_ALL
MUTE_SC
DC_DET
GND
SPEAKER
JK501
JK502
JK503

2/2 SA-HT40GN/GT DIGITAL AMP CIRCUIT

SCHEMATIC DIAGRAM - 8

D PANEL CIRCUIT

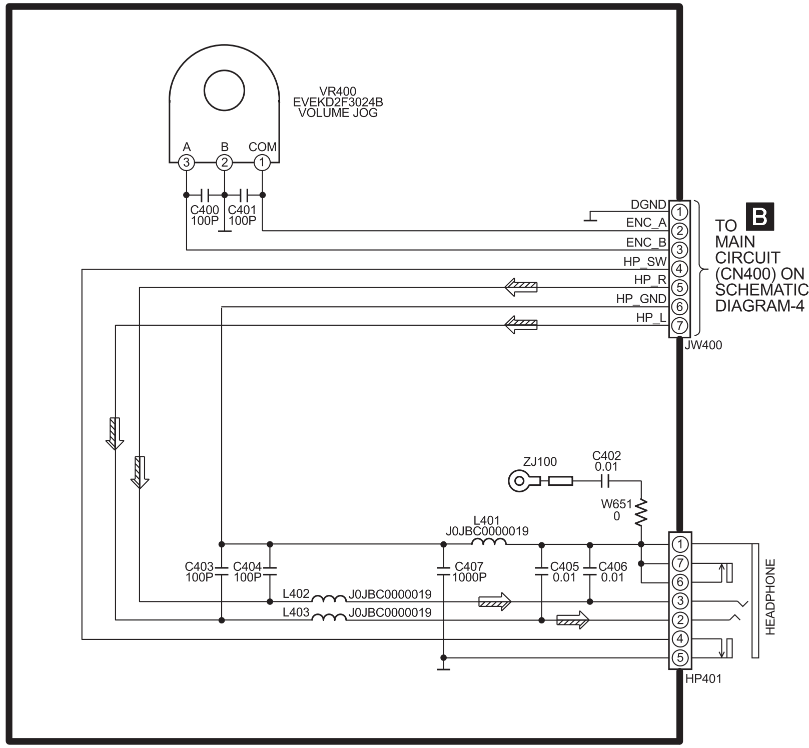
: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE


FL401
A2BB00000158
Q401
B1GDCFJJ0008
D401
B0ACCK000005
R405 270
D402 SLR342VC
R404 8.2K
D403 MAZ80560ML
R411 100
W602 0
W604 0
C413 50V22
C414 50V22
C417 50V10
Q404
Q403
R402 100K
C468 330P
C415 50V22
C416 50V22
W603 0
VREF
PCONT
VEE
FLGND
FL_0V
5V
FL_4R6V
TO MAIN CIRCUIT (CN401) ON SCHEMATIC DIAGRAM-5
TO MAIN CIRCUIT (CN402) ON SCHEMATIC DIAGRAM-5
TO POWER CIRCUIT (CN801) ON SCHEMATIC DIAGRAM-9
MUSIC_SW
MUSIC_R
MUSIC_GND
MUSIC_L
REMOTE
DGND
KEY1
KEY2
POWER_SAVE
FL_DI
FL_CLK
FL_CS
FL_DO
JW401
FL_GND
D407 B0JCAE000001
JW801
GN
GT
W608 0
S401 POWER
S402 < I/P SELECT
R4034 2.2K
S403 I/P SELECT >
W601 0
R4033 3.3K
S404 ENTER
S406 MENU/-SETUP
R4030 2.2K
S407 TUNE_DOWN
R403 3.3K
S408 TUNE_UP
Q403 B1GBCFJJ0007 FL DRIVE
Q404 B1GDCFJJ0008 FL DRIVE
IC401
C0HBB0000061
FL DRIVER
W607 0
C420 0.1
C419 50V22
C418 50V22
C4070 0.1
C4071 0.1
C412 0.1
C411 6.3V470
VDD
VSS
R4061 82K
R406 1K
R407 1K
R408 1K
R409 1K
C408 1000P
C409 1000P
C410 1000P
C4101 1000P
C469 16V33
R412 1.5K
VREF

SA-HT40GN/GT PANEL CIRCUIT

E VOLUME CIRCUIT

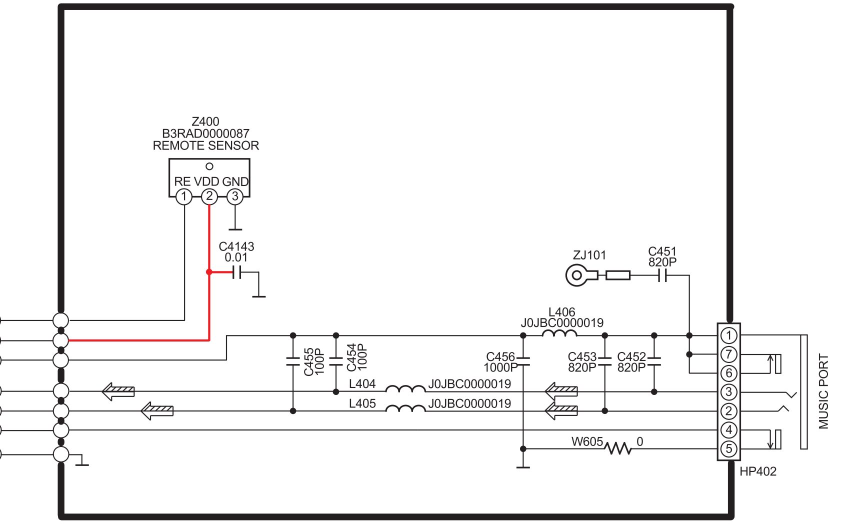
: MAIN SIGNAL LINE


VR400
EVEKD2F3024B
VOLUME JOG
A
B
COM
C400 100P
C401 100P
DGND
ENC_A
ENC_B
HP_SW
HP_R
HP_GND
HP_L
TO MAIN CIRCUIT (CN400) ON SCHEMATIC DIAGRAM-4
JW400
ZJ100
C402 0.01
W651 0
L401 J0JBC0000019
C403 100P
C404 100P
C407 1000P
C405 0.01
C406 0.01
L402 J0JBC0000019
L403 J0JBC0000019
HEADPHONE
HP401

SA-HT40GN/GT VOLUME CIRCUIT

F MUSIC PORT CIRCUIT

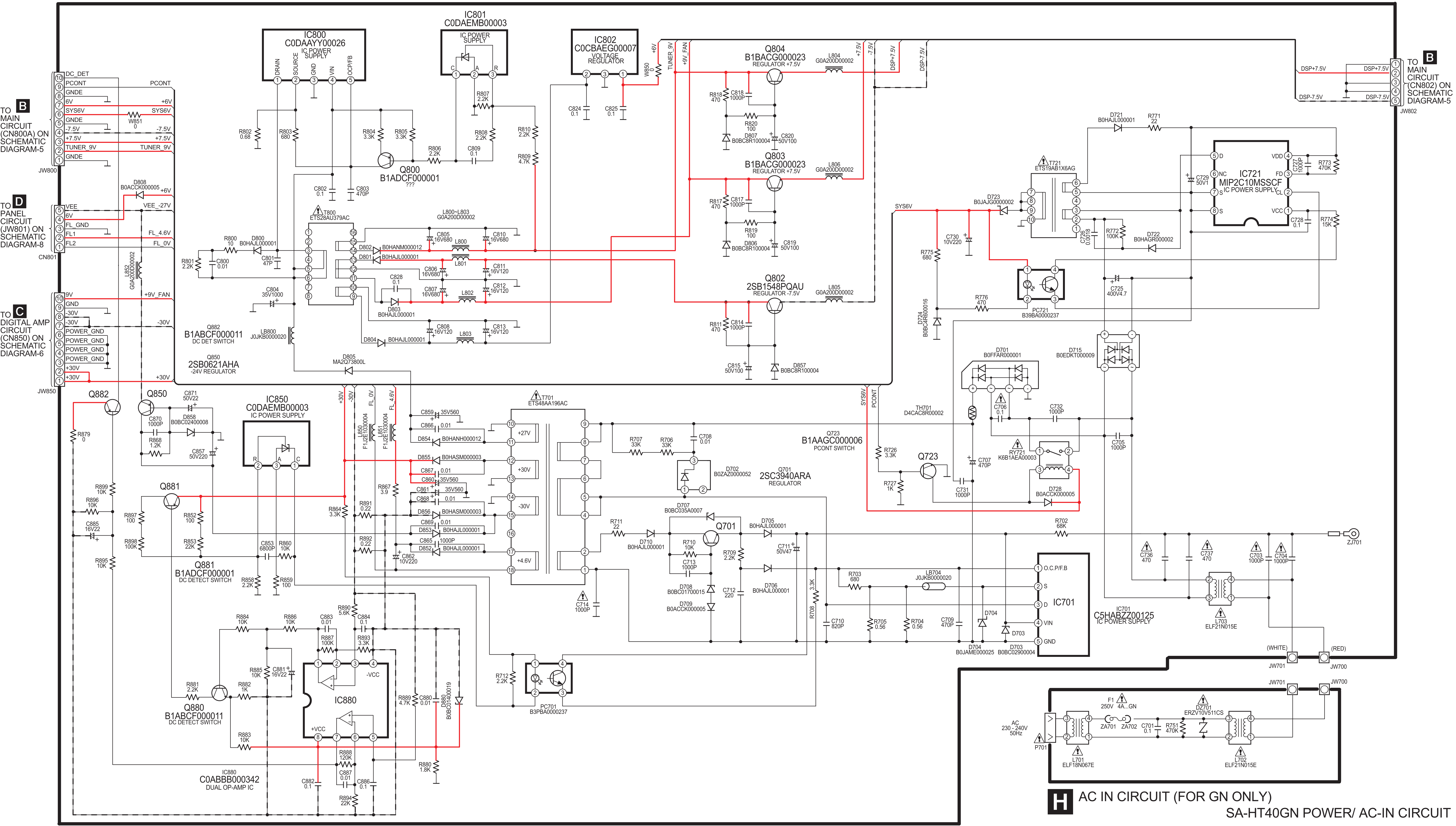
: MAIN SIGNAL LINE


Z400
B3RAD0000087
REMOTE SENSOR
RE VDD GND
C4143 0.01
ZJ101
C451 820P
L406 J0JBC0000019
C455 100P
C454 100P
C456 1000P
C453 820P
C452 820P
L404 J0JBC0000019
L405 J0JBC0000019
W605 0
MUSIC PORT
HP402

SA-HT40GN/GT MUSIC PORT CIRCUIT

G POWER CIRCUIT (FOR GN ONLY)

: +B SIGNAL LINE   : -B SIGNAL LINE


IC800
C0DAAYY00026
IC POWER SUPPLY
DRAIN
SOURCE
GND
VIN
OCP/FB
IC801
C0DAEMB00003
IC POWER SUPPLY
IC802
C0CBAEG00007
VOLTAGE REGULATOR
Q804
B1BACG000023
REGULATOR +7.5V
Q803
B1BACG000023
REGULATOR +7.5V
Q802
2SB1548PQAU
REGULATOR -7.5V
Q800
B1ADCF000001
T800
ETS28AU379AC
L800~L803
G0A200D00002
Q882
B1ABCF000011
DC DET SWITCH
Q850
2SB0621AHA
-24V REGULATOR
IC850
C0DAEMB00003
IC POWER SUPPLY
T701
ETS48AA196AC
Q881
B1ADCF000001
DC DETECT SWITCH
Q880
B1ABCF000011
DC DETECT SWITCH
IC880
C0ABBB000342
DUAL OP-AMP IC
PC701
B3PBA0000237
Q701
2SC3940ARA
REGULATOR
Q723
B1AAGC000006
PCONT SWITCH
IC701
C5HABZZ00125
IC POWER SUPPLY
O.C.P/F.B
S
D
VIN
GND
IC721
MIP2C10MSSCF
IC POWER SUPPLY
T721
ETS19AB1X6AG
PC721
B39BA0000237
RY721
K6B1AEA00003
D701
B0FFAR000001
D715
B0EDKT000009
TH701
D4CAC8R00002
L703
ELF21N015E
ZJ701
TO B MAIN CIRCUIT (CN800A) ON SCHEMATIC DIAGRAM-5
JW800
DC_DET
PCONT
GNDE
6V
SYS6V
-7.5V
+7.5V
TUNER_9V
TO D PANEL CIRCUIT (JW801) ON SCHEMATIC DIAGRAM-8
CN801
VEE
FL_GND
FL1
FL2
VEE_-27V
FL_4.6V
FL_0V
TO C DIGITAL AMP CIRCUIT (CN850) ON SCHEMATIC DIAGRAM-6
JW850
9V
GND
-30V
POWER_GND
+30V
+9V_FAN
TO B MAIN CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-5
JW802
DSP+7.5V
DSP-7.5V
+27V
+30V
-30V
+4.6V
(WHITE)
(RED)
JW701
JW700
AC 230 - 240V 50Hz
P701
F1 250V 4A...GN
ZA701
ZA702
C701 0.1
R751 470K
DZ701 ERZV10V511CS
L701 ELF18N067E
L702 ELF21N015E

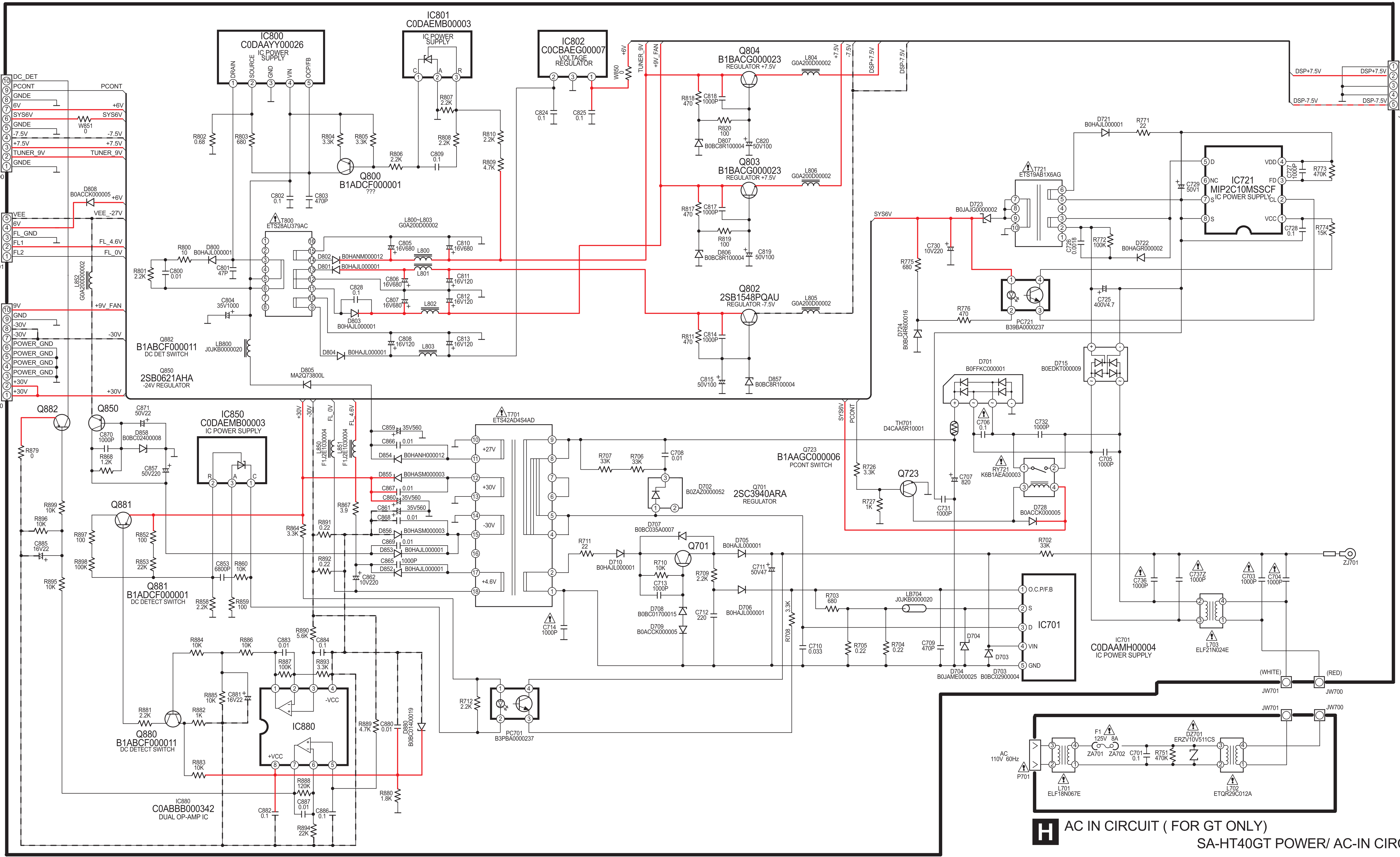
H AC IN CIRCUIT (FOR GN ONLY)

SA-HT40GN POWER/ AC-IN CIRCUIT

G POWER CIRCUIT (FOR GT ONLY)

: +B SIGNAL LINE

: -B SIGNAL LINE


IC800
C0DAAYY00026
IC POWER SUPPLY
DRAIN
SOURCE
GND
VIN
OCP/FB
IC801
C0DAEMB00003
IC POWER SUPPLY
IC802
C0CBAEG00007
VOLTAGE REGULATOR
Q804
B1BACG000023
REGULATOR +7.5V
Q803
B1BACG000023
REGULATOR +7.5V
Q802
2SB1548PQAU
REGULATOR -7.5V
Q800
B1ADCF000001
T800
ETS28AU379AC
L800~L803
G0A200D00002
Q882
B1ABCF000011
DC DET SWITCH
Q850
2SB0621AHA
-24V REGULATOR
TO B MAIN CIRCUIT (CN800A) ON SCHEMATIC DIAGRAM-5
JW800
DC_DET
PCONT
GNDE
6V
SYS6V
-7.5V
+7.5V
TUNER_9V
TO D PANEL CIRCUIT (JW801) ON SCHEMATIC DIAGRAM-8
CN801
VEE
FL_GND
FL1
FL2
VEE_-27V
FL_4.6V
FL_0V
TO C DIGITAL AMP CIRCUIT (CN850) ON SCHEMATIC DIAGRAM-6
JW850
9V
GND
-30V
POWER_GND
+30V
+9V_FAN
TO B MAIN CIRCUIT (CN802) ON SCHEMATIC DIAGRAM-5
JW802
DSP+7.5V
DSP-7.5V
IC721
MIP2C10MSSCF
IC POWER SUPPLY
T721
ETS19AB1X6AG
PC721
B39BA0000237
D701
B0FFKC000001
D715
B0EDKT000009
TH701
D4CAA5R10001
Q723
B1AAGC000006
PCONT SWITCH
RY721
K6B1AEA00003
T701
ETS42AD4S4AD
Q701
2SC3940ARA
REGULATOR
IC701
C0DAAMH00004
IC POWER SUPPLY
O.C.P/F.B
S
D
VIN
GND
LB704
J0JKB0000020
L703
ELF21N024E
ZJ701
IC850
C0DAEMB00003
IC POWER SUPPLY
Q881
B1ADCF000001
DC DETECT SWITCH
Q880
B1ABCF000011
DC DETECT SWITCH
IC880
C0ABBB000342
DUAL OP-AMP IC
-VCC
+VCC
PC701
B3PBA0000237
(WHITE)
(RED)
JW701
JW700
AC 110V 60Hz
P701
L701
ELF18N067E
F1 125V 8A
ZA701
ZA702
C701 0.1
R751 470K
DZ701
ERZV10V511CS
L702
ETQR29C012A

H AC IN CIRCUIT (FOR GT ONLY)

SA-HT40GT POWER/ AC-IN CIRCUIT

DIGITAL AMP P.C.B

Ref No.	IC551																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.1	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC551.																			
MODE	21	22	23																	
CD PLAY	0	0	-0.1																	
STANDBY	0	0	-0.3																	

Ref No.	IC552																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC552.																			
MODE	21	22	23																	
CD PLAY	0	0	0																	
STANDBY	0	0	-0.2																	

Ref No.	IC563																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC563																			
MODE	21	22	23																	
CD PLAY	0	0	0																	
STANDBY	0	0	-0.3																	

Ref No.	IC564																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.7	0	0	29.4	0	-29.8	-28.7	-29.2	0	0	-29.8	-28.7	-29.3	0	0	29.3	-29.8	-29.8	0	28.9
STANDBY	0.2	0	0	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0

Ref No.	IC564																			
MODE	21	22	23																	
CD PLAY	0	0	-0.1																	
STANDBY	0	0	-0.2																	

Ref No.	IC5400																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	5.6	2.6	2.8	2.6	2.7	0	5.5	2.1	2.6	2.8	5	2.1	5.6						
STANDBY	0	0.7	0.2	0	0.1	0	0	0.2	0.1	0.1	0.1	0.1	0.1	0.3						

Ref No.	IC5401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	2.7	2.8	2.7	0	2.8	0	0	1.8	1.8	1.7	1.7	5.4	0	5.7						
STANDBY	0.1	0.1	0.1	0	0.1	0	0	0.2	0.2	0.2	0.2	0.2	0.2	0.4						

Ref No.	Q591				Q592				Q5001				Q5002				Q5003			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	4.9	0		0	4.9	0		5.8	0	5.8		0	-0.1	0		0	0	4.1	
STANDBY	0	4.8	0		0	4.8	0		0.1	-0.2	0.1		0	-0.2	0		0	-0.2	0	

Ref No.	Q5004				Q5005				Q5006				Q5007				Q5400			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	4.1		5.8	29.3	6.3		0	5.7	0		0	29.3	0		2.8	0	5.6	
STANDBY	0	-0.2	0		0	0	0		0	0.1	0		0	0	0		0	4.5	0.1	

Ref No.	Q5401				Q5500				Q5501				Q5502				Q5503			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	2.8	2.6	2.8		0	10.3	0		10.3	0	10.3		0	0	0.3		0	4.9	0	
STANDBY	0	-4.5	0.1		0	0.1	0		0.1	0	0.1		0	0	0		0	0.5	0	

DSP P.C.B

Ref No.	IC1001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	2.5	0	0.9	0	2.5	0.3	0.4	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5
STANDBY	0	0	0	0	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0	0
Ref No.	IC1001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	2.5	0.9	0	2.5	1.2	1.3	0.9	1.2	1.2	1.2	0	2.5	1.2	2.5	0	2.5	2.5	2.5	2	2
STANDBY	0	0.1	0	0	0.1	0	0.1	0.1	0.1	0.1	0	-0.3	0	0	0	0.1	0	0	0.1	0.1
Ref No.	IC1001																			
MODE	41	42	43	44																
CD PLAY	2.2	1.3	1.2	1.2																
STANDBY	0.1	0.1	0.1	0.1																
Ref No.	IC1003																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	1.2	1.2	1.3	0	1.2	1.2	1.2	2.5												
STANDBY	0.1	0.1	0.1	0	0.2	0.1	0.1	0												
Ref No.	IC1004																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	0.6	0.3	0	0.7	0.4	0	2.5	4.7	0	2.5	4.7	0	2.5						
STANDBY	0	2.1	2.1	0	2.1	2.1	0	0	0	0	0	0	0	0						
Ref No.	IC1005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14						
CD PLAY	0	1.1	5	0	0	0	0	5	2.5	0	5	2.5	0	0						
STANDBY	0	0	0.1	0	0	0.1	0	0.1	0	0	0.1	0	0	0						
Ref No.	IC1101																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0.9	1.2	1.2	5	0	5	0.7	0.1	0.7	3.6	5	4.7	2.8	2.8	2.8	2.8	2.8	4.8	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0
Ref No.	IC1101																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5	0	0
STANDBY	0	0	0	0	0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0	0	0
Ref No.	IC1101																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	5.1	2.5	0	0	0	1.1	0	0	2.5	0	5	0	2.5	0.9	1.2	0.9	0	0	1.2	1.2
STANDBY	0	0	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0	0	0	0	0.1
Ref No.	IC1101																			
MODE	61	62	63	64																
CD PLAY	0	0	0	0																
STANDBY	0.1	0	0.1	0.1																
Ref No.	IC1201																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3												
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6												
Ref No.	IC1202																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3												
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6												
Ref No.	IC1203																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	2.7	2.8	2.8	-7.6	2.8	2.8	2.8	7.3												
STANDBY	0.2	0.2	0.2	0.4	0.2	0.2	0.2	0.6												
Ref No.	IC1701																			
MODE	1	2	3																	
CD PLAY	5	-	2.5																	
STANDBY	0	-	0																	
Ref No.	Q1001				Q1701				Q1702				Q1703							
MODE	E	C	B		E	C	B		E	C	B		E	C	B					
CD PLAY	2.5	2.5	2.5		6.7	6.3	5.6		5.6	6.3	5		5.6	6.3	5.6					
STANDBY	0	0	0		0.1	0.6	0.6		0.1	0.6	0		0	0	0.1					

MAIN P.C.B

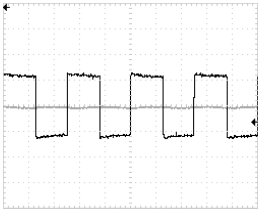
Ref No.	IC150																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	-7.7	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0.1	0	0	0	0	0	0
Ref No.																				
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	0	0	0	0	5	7.5	0	0	0	0	-7.6	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0.5	0.6	0	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0.1	0.1
Ref No.																				
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56				
CD PLAY	0	0	0	0	0	0	0	0	0	0	0	0	0	-0.3	-0.3	-0.4				
STANDBY	0.1	0.1	0	0	0	0	0.1	0.1	0.1	0.1	0	0	0.5	0.5	0.5	0.5				
Ref No.	IC151																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0	0.5	0.1	0.1	0.1	0.6												
Ref No.	IC152																			
MODE	1	2																		
CD PLAY	9	10.3																		
STANDBY	0	0.6																		
Ref No.	IC200																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-0.2	0	-	-7.7	0	0	0	7.5												
STANDBY	0	0	0	0.4	0	0	0	0.6												
Ref No.	IC201																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0.5	0	0	0.1	0.1	0.6												
Ref No.	IC202																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0	0	0.1	0.4	0.1	0	0	0.6												
Ref No.	IC204																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.1	0.1	0.5	0	0	0.1	0.1	0.6												
Ref No.	IC205																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-0.1	0	0	-7.7	0	0	0	7.5												
STANDBY	0	0	0.1	0.4	0	0	0.1	0.6												
Ref No.	IC207																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0	0	0	-7.7	0	0	0	7.5												
STANDBY	0.2	0.1	0	0.5	0	0.1	0.1	0.5												
Ref No.	IC208																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	0.2	0.2	0.2	-7.7	0.2	0.2	0.2	7.5												
STANDBY	0.1	0.1	0.4	0	0	0.1	0.1	0.6												
Ref No.	IC301																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	5	5	0	0	0	0	0	0	0	0	4.7	2.7	0	2.3	4.7	4.7	0	4.9	3.4
STANDBY	0	0	0	0	0	0	0	0	0	0	0	4.8	2.4	0	2.2	4.7	4.8	0	4.7	4.7
Ref No.	IC301																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	0	5	0	4.7	4.9	0	0	0	4.9	4.9	0	5	0	4.7	4.7	0	0	0	0	0
STANDBY	3.4	0	0	0	0	0	0	0	4.7	4.7	0	0	0	0	0	0	0	0	0	0
Ref No.	IC301																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
CD PLAY	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
STANDBY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ref No.	IC301																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
CD PLAY	0	0	0	0	0	0	0	0	4.7	4.7	4.9	0	4.9	5	5.1	0	4.7	0	0	0
STANDBY	0	4.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4.7
Ref No.	IC301																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
CD PLAY	4.9	4.9	0	0	0	0	0	0	0	0	4.7	4.6	4.9	4.9	4.9	0	2.4	4.7	4.9	5
STANDBY	4.7	4.7	0	0	0	0	0	0	0	0	0	0	0	4.7	1.1	0	2.4	4.8	4.7	0
Ref No.	IC302																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	4.9	4.9	0	5.5	5.5	5.5	0	0												
STANDBY	5.5	5.5	0	0	4.8	4.8	0	5.5												
Ref No.	Q200				Q201				Q202				Q203				Q204			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	5.5	-7.3	-4.7		5.6	5.5	0		0	0	0		0	0	4.6		0.2	0	-7.3	
STANDBY	5.6	5.5	0		5.6	5.6	0		0	0	0		0	0	4.7		0	0	0.7	
Ref No.	Q205				Q206				Q207				Q208				Q209			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0.2	0	-7.3		0	0	-7.3		0	0	-7.3		5.6	-7.3	5.6		0	5.5	0	
STANDBY	0	0	0.7		0	0	0.7		0	0	0.7		5.6	0.4	5.5		0	5.6	0	
Ref No.	Q211				Q212				Q213				Q301				Q302			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	0	0	0.7		0	0	0.7		0	0	-7.3		0	4.7	0		4.9	3.4	4	
STANDBY	0	0	0.7		0	0	0.7		0	0	0.3		0	4.7	0		4..8	3.4	3.9	
Ref No.	Q303																			
MODE	E	C	B																	
CD PLAY	0	4.9	-3.4																	
STANDBY	0	1.2	0.5																	

PANEL P.C.B

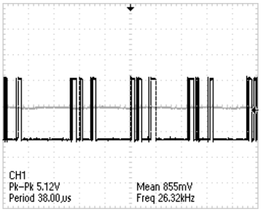
Ref No.	IC401																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
CD PLAY	0	0	0	0	3.9	0	3.8	3.4	3.7	1.6	1.6	0	5.6	-24.3	-21.3	-18.8	-24.3	-25.8	-24.3	-26.4
STANDBY	0.4	0.4	0.4	0.4	0	0	0	0	0	0.2	0.2	0	0.4	-18.6	-18.5	-18.5	-18.6	-18.6	-18.7	-18.6
Ref No.	IC401																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CD PLAY	-26.5	-26.5	-26.5	-26.5	-26.5	-24.6	-26.5	-27	-26.5	-28.3	-26.9	-24.5	-24.5	-24.5	-23.9	-23.9	-23.9	-24.5	-23.9	-24.6
STANDBY	-18.5	-18.5	-18.5	-18.5	-18.6	-18.6	-18.7	-18.7	-18.8	-18.8	-18.8	-18.7	-18.7	-18.8	-18.7	-18.7	-18.8	-18.8	-18.8	-18.7
Ref No.	IC401																			
MODE	41	42	43	44																
CD PLAY	-24.6	-24.6	5	0																
STANDBY	-18.7	-18.8	0.5	0																
Ref No.	Q402				Q403				Q404											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	0	4.9	0		-26.9	2.6	-24.5		5	-24.1	2.6									
STANDBY	0	4.8	0		-18.4	0.5	-18.3		0.5	-18.1	0.5									

POWER P.C.B

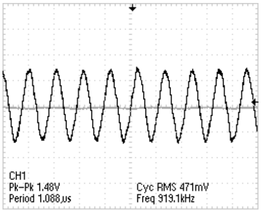
Ref No.	IC701																			
MODE	1	2	3	4	5															
CD PLAY	-41.5	-40.6	-70	-32.7	-40.5															
STANDBY	-0.1	-0.1	0.1	0	-0.1															
Ref No.	IC721																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-38	-41.4	-40.4	-36.8	60	-	-41.9	-41.9												
STANDBY	-1.4	0	-1.3	-1.2	-1..3	-	-1.3	-1.2												
Ref No.	IC800																			
MODE	1	2	3	4	5															
CD PLAY	28.2	0	0	28.2	0.2															
STANDBY	7.7	0	0	7.7	0															
Ref No.	IC801																			
MODE	1	2	3																	
CD PLAY	24.5	0	2.3																	
STANDBY	7.7	0	0.1																	
Ref No.	IC802.																			
MODE	1	2																		
CD PLAY	5	5.5																		
STANDBY	0.5	0.5																		
Ref No.	IC850																			
MODE	1	2	3																	
CD PLAY	22.1	0.2	2.7																	
STANDBY	0	0	0																	
Ref No.	IC880																			
MODE	1	2	3	4	5	6	7	8												
CD PLAY	-29.8	-29.8	-29.8	-29.8	-14.8	-16	0	0												
STANDBY	0	0	0	0	0	0	0	0												
Ref No.	Q701				Q723				Q800				Q802				Q803			
MODE	E	C	B		E	C	B		E	C	B		E	C	B		E	C	B	
CD PLAY	-37.9	-37.1	-37.9		0	0	0.7		26.5	0.2	26		-7.7	-10.4	-8.3		7.5	10.3	8.2	
STANDBY	0	0	0		0	5.6	0		7.7	0	7.7		0.1	0.1	0.4		0.6	0.1	0.1	
Ref No.	Q804				Q880				Q881											
MODE	E	C	B		E	C	B		E	C	B									
CD PLAY	7.5	10.4	8.1		-28.5	21.7	-29.8		23.2	22.2	21.7									
STANDBY	0.6	0.6	0.6		0	3	0		0	0	3.1									



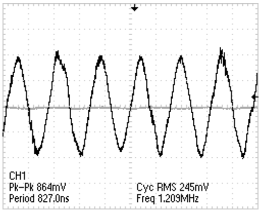
CN105 PIN 3
CD PLAY
5.52Vp-p (5usec.div)



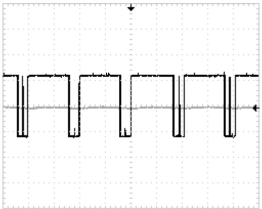
CN105 PIN 10
CD PLAY
5.12Vp-p (500usec.div)



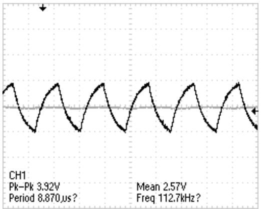
CN400 PIN 5
CD PLAY
1.48Vp-p (1usec.div)



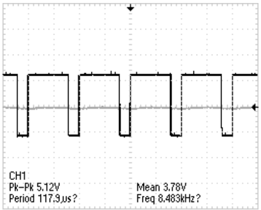
CN400 PIN 8
CD PLAY
864mVp-p (500nsec.div)



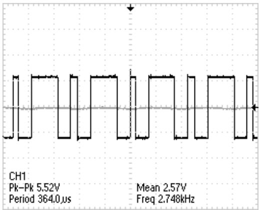
CN402 PIN 5
CD PLAY
5.12Vp-p (10msec.div)



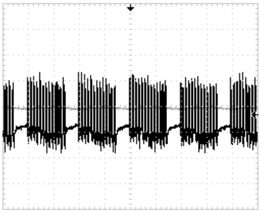
CN402 PIN 6
CD PLAY
3.92Vp-p (5usec.div)



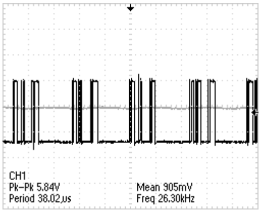
CN402 PIN 7
CD PLAY
5.12Vp-p (10msec.div)



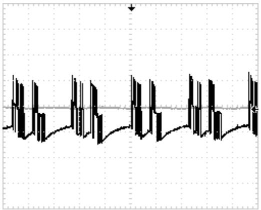
CN904A PIN 2
CD PLAY
5.52Vp-p (500usec.div)



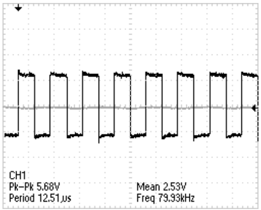
CN904A PIN 8
CD PLAY
1.56Vp-p (10msec.div)



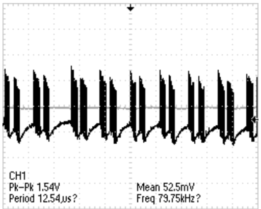
CN904A PIN 9
CD PLAY
5.84Vp-p (500usec.div)



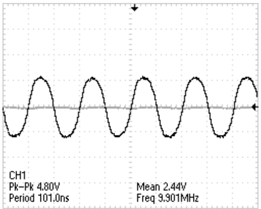
CN904A PIN 10
CD PLAY
2.8Vp-p (500usec.div)



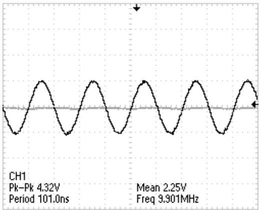
CN904A PIN 11
CD PLAY
5.68Vp-p (10usec.div)



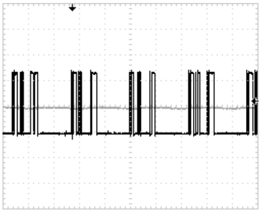
CN904A PIN 12
CD PLAY
1.54Vp-p (1msec.div)



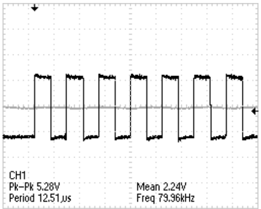
IC301 PIN 13
CD PLAY
4.8Vp-p (50nsec.div)



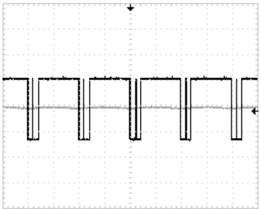
IC301 PIN 15
CD PLAY
4.32Vp-p (50nsec.div)



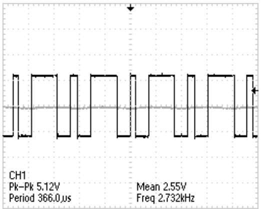
IC301 PIN 31
CD PLAY
5.36Vp-p (500usec.div)



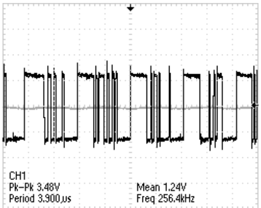
IC301 PIN 33
CD PLAY
5.28Vp-p (10usec.div)



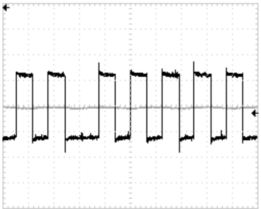
IC301 PIN 69
CD PLAY
5.04Vp-p (10msec.div)



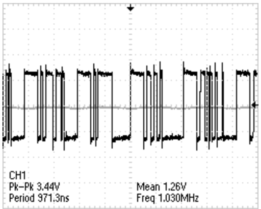
IC301 PIN 76
CD PLAY
5.12Vp-p (500usec.div)



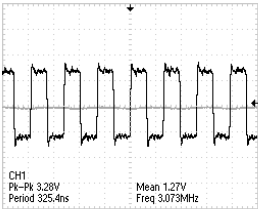
IC1001 PIN 3
CD PLAY
3.48Vp-p (5usec.div)



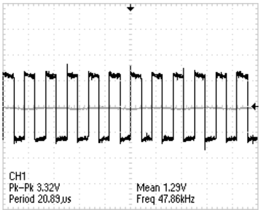
IC1001 PIN 7
CD PLAY
3.52Vp-p (10usec.div)



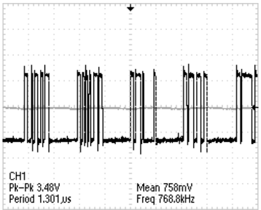
IC1001 PIN 22
CD PLAY
3.44Vp-p (5usec.div)



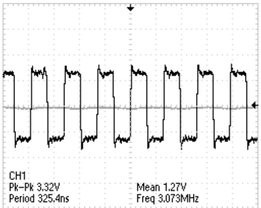
IC1001 PIN 25
CD PLAY
3.28Vp-p (250nsec.div)



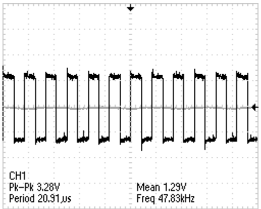
IC1001 PIN 26
CD PLAY
3.32Vp-p (25usec.div)



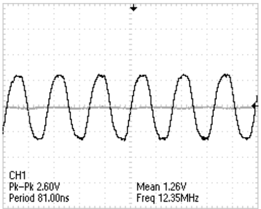
IC1001 PIN 27
CD PLAY
3.48Vp-p (5usec.div)



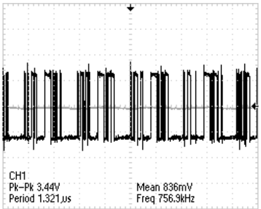
IC1001 PIN 28
CD PLAY
3.32Vp-p (250nsec.div)



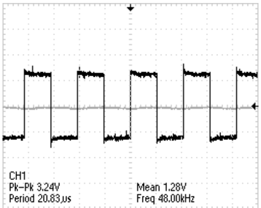
IC1001 PIN 29
CD PLAY
3.28Vp-p (25usec.div)



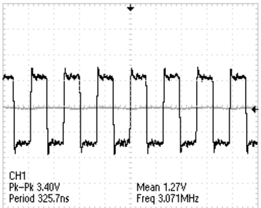
IC1001 PIN 30
CD PLAY
2.6Vp-p (50nsec.div)



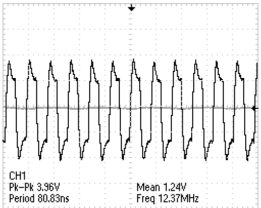
IC1001 PIN 41
CD PLAY
3.44Vp-p (10usec.div)



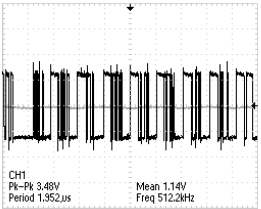
IC1001 PIN 42
CD PLAY
3.24Vp-p (10usec.div)



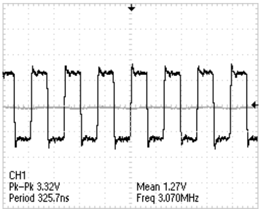
IC1001 PIN 43
CD PLAY
3.4Vp-p (250nsec.div)



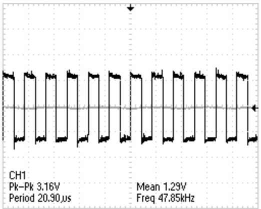
IC1001 PIN 44
CD PLAY
3.96Vp-p (100nsec.div)



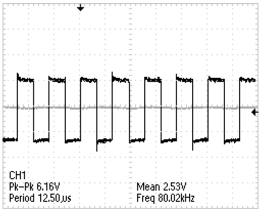
IC1101 PIN 1
CD PLAY
3.48Vp-p (10usec.div)



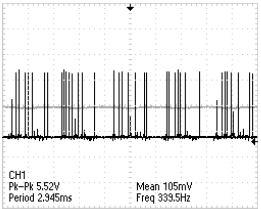
IC1101 PIN 2
CD PLAY
3.32Vp-p (250nsec.div)



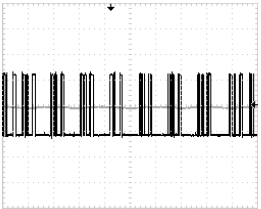
IC1101 PIN 3
CD PLAY
3.16Vp-p (25usec.div)



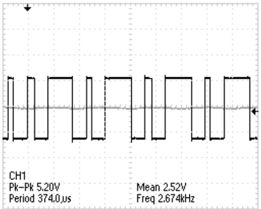
IC1101 PIN 7
CD PLAY
6.16Vp-p (10usec.div)



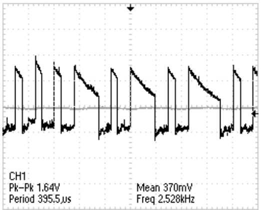
IC1101 PIN 8
CD PLAY
5.52Vp-p (10msec.div)



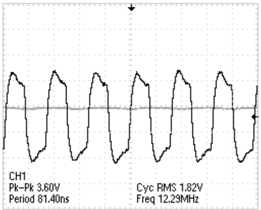
IC1101 PIN 9
CD PLAY
5.2Vp-p (1msec.div)



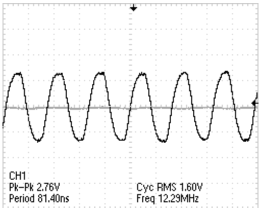
IC1101 PIN 10
CD PLAY
5.2Vp-p (500usec.div)



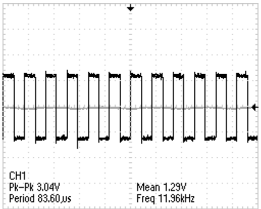
IC1101 PIN 11
CD PLAY
1.64Vp-p (500usec.div)



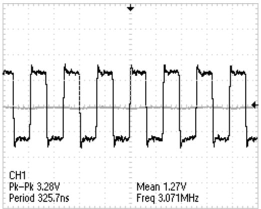
IC1101 PIN 55
CD PLAY
3.6Vp-p (50nsec.div)



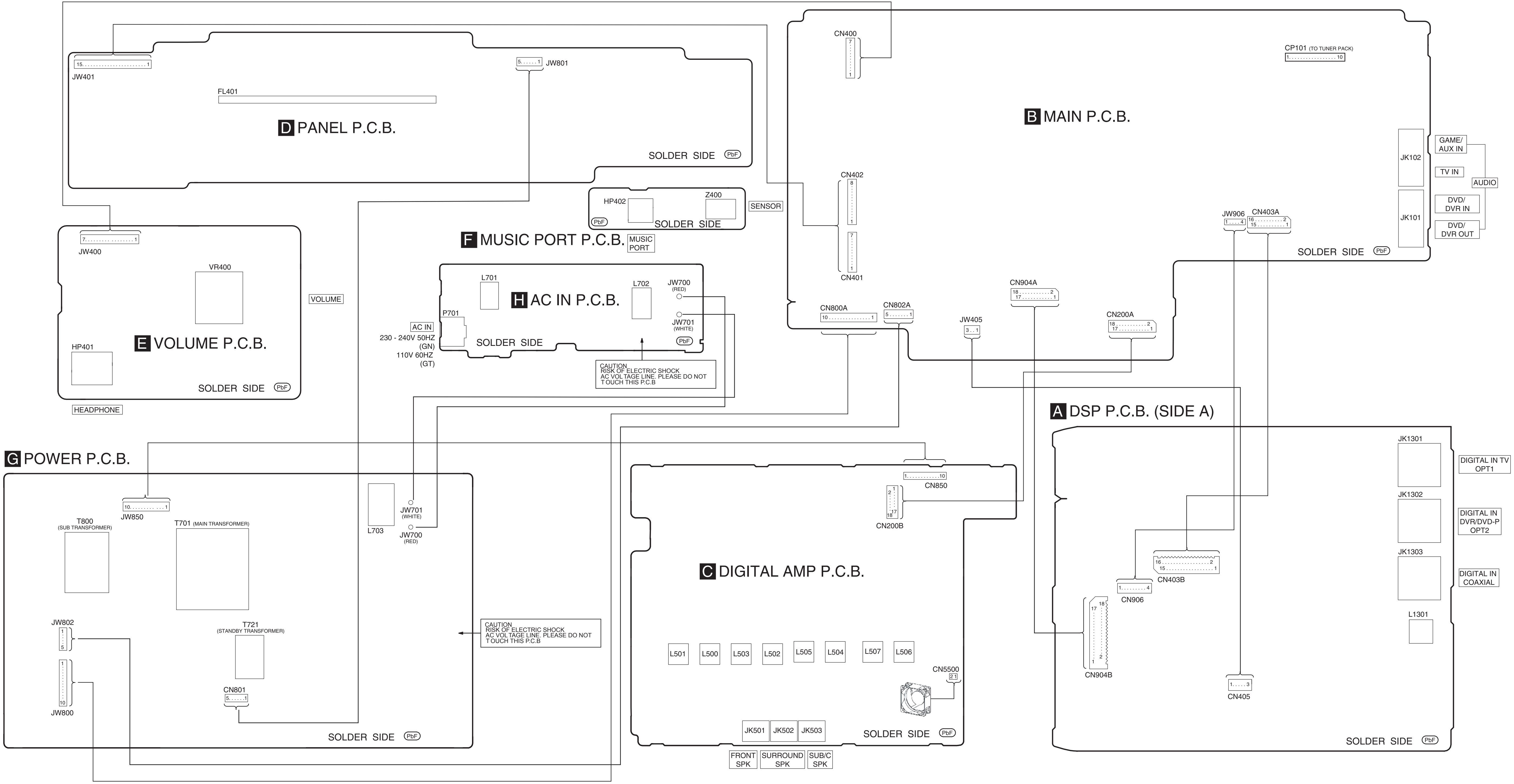
IC1101 PIN 59
CD PLAY
2.76Vp-p (50nsec.div)

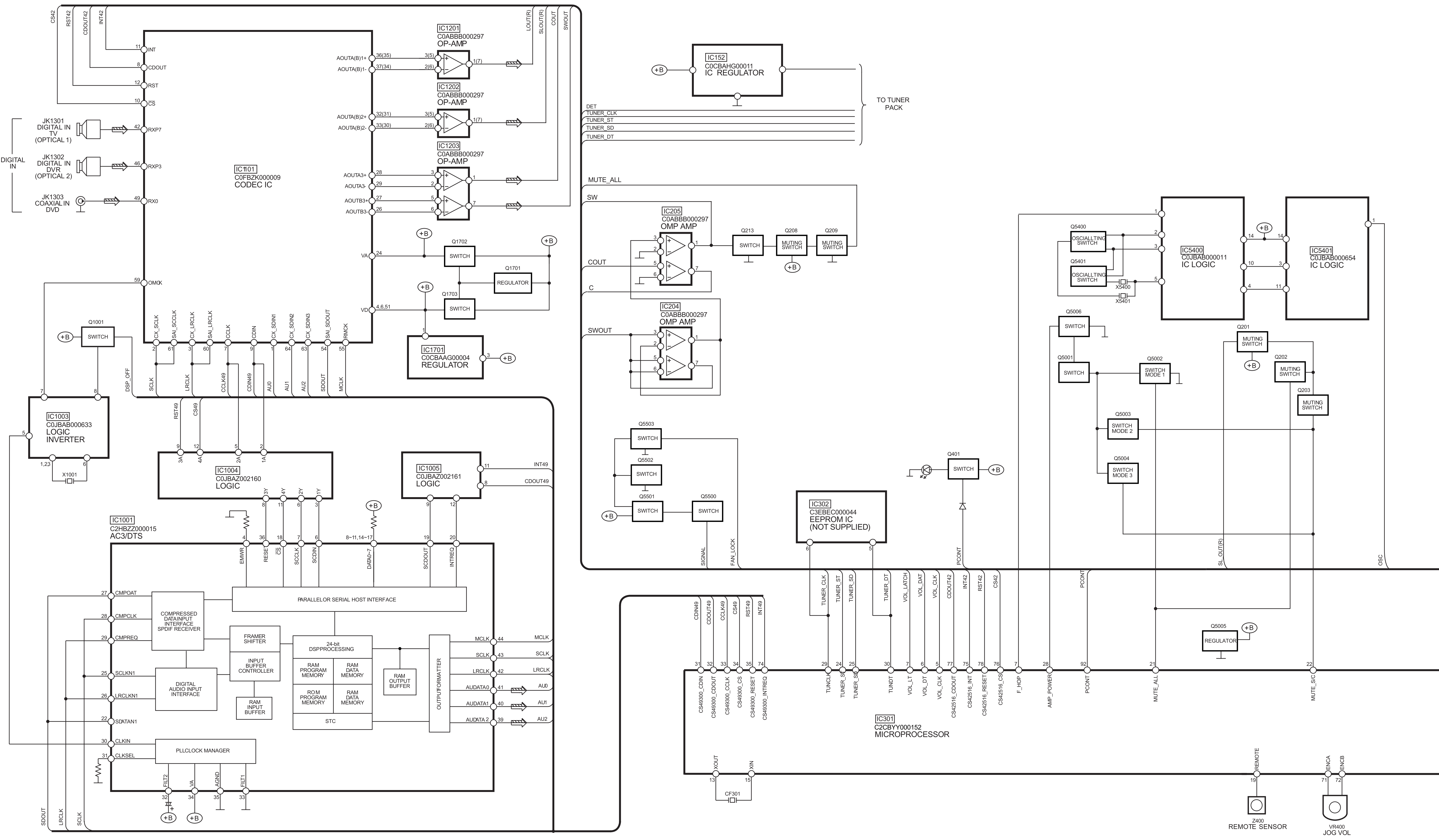


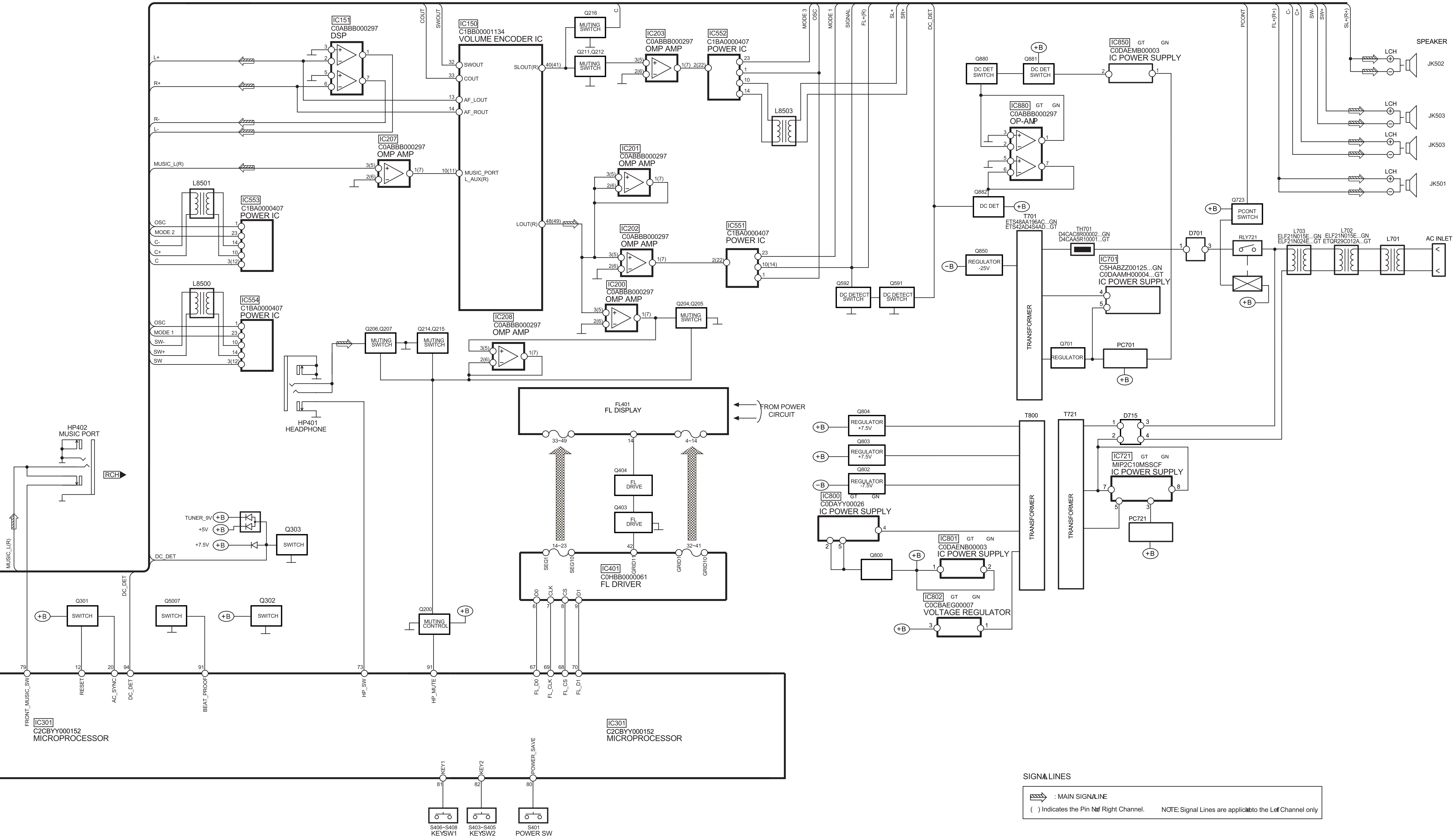
IC1101 PIN 60
CD PLAY
3.04Vp-p (100usec.div)



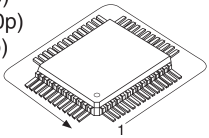
IC1101 PIN 61
CD PLAY
3.28Vp-p (250nsec.div)


D PANEL P.C.B.
JW401
FL401
JW801
SOLDER SIDE
PbF
B MAIN P.C.B.
CN400
CP101 (TO TUNER PACK)
CN402
CN401
JK102
JK101
GAME/ AUX IN
TV IN
AUDIO
DVD/ DVR IN
DVD/ DVR OUT
JW906
CN403A
CN904A
CN800A
CN802A
JW405
CN200A
HP402
Z400
SENSOR
F MUSIC PORT P.C.B.
MUSIC PORT
E VOLUME P.C.B.
JW400
VR400
HP401
VOLUME
HEADPHONE
H AC IN P.C.B.
L701
L702
JW700 (RED)
JW701 (WHITE)
P701
AC IN
230 - 240V 50HZ (GN)
110V 60HZ (GT)
CAUTION RISK OF ELECTRIC SHOCK AC VOLTAGE LINE. PLEASE DO NOT TOUCH THIS P.C.B
G POWER P.C.B.
JW850
T800 (SUB TRANSFORMER)
T701 (MAIN TRANSFORMER)
L703
JW701 (WHITE)
JW700 (RED)
JW802
JW800
T721 (STANDBY TRANSFORMER)
CN801
CAUTION RISK OF ELECTRIC SHOCK AC VOLTAGE LINE. PLEASE DO NOT TOUCH THIS P.C.B
C DIGITAL AMP P.C.B.
CN850
CN200B
L501
L500
L503
L502
L505
L504
L507
L506
CN5500
JK501
JK502
JK503
FRONT SPK
SURROUND SPK
SUB/C SPK
A DSP P.C.B. (SIDE A)
JK1301
JK1302
JK1303
DIGITAL IN TV OPT1
DIGITAL IN DVR/DVD-P OPT2
DIGITAL IN COAXIAL
CN403B
CN906
CN904B
L1301
CN405

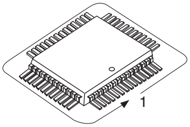

IC1101
C0FBZK000009
CODEC IC
IC1201
C0ABBB000297
OP-AMP
IC1202
C0ABBB000297
OP-AMP
IC1203
C0ABBB000297
OP-AMP
IC152
C0CBAHG00011
IC REGULATOR
TO TUNER PACK
DET
TUNER_CLK
TUNER_ST
TUNER_SD
TUNER_DT
MUTE_ALL
SW
COUT
C
SWOUT
IC205
C0ABBB000297
OMP AMP
IC204
C0ABBB000297
OMP AMP
Q213
SWITCH
Q208
MUTING SWITCH
Q209
MUTING SWITCH
JK1301
DIGITAL IN
TV
(OPTICAL 1)
JK1302
DIGITAL IN
DVR
(OPTICAL 2)
JK1303
COAXIAL IN
DVD
DIGITAL IN
CS42
RST42
CDOUT42
INT42
LOUT(R)
SLOUT(R)
COUT
SWOUT
INT
CDOUT
RST
CS
RXP7
RXP3
RX0
OMCK
VA
VD
AOUTA(B)1+
AOUTA(B)1-
AOUTA(B)2+
AOUTA(B)2-
AOUTA3+
AOUTA3-
AOUTB3+
AOUTB3-
CX_SCLK
SAI_SCLK
CX_LRCLK
SAI_LRCLK
CCLK
CDIN
CX_SDIN1
CX_SDIN2
CX_SDIN3
SAI_SDOUT
RMCK
Q1702
SWITCH
Q1701
REGULATOR
Q1703
SWITCH
IC1701
C0CBAAG00004
REGULATOR
Q1001
SWITCH
DSP_OFF
SCLK
LRCLK
CCLK49
CDIN49
AU0
AU1
AU2
SDOUT
MCLK
RST49
CS49
IC1003
C0JBAB000633
LOGIC
INVERTER
X1001
IC1004
C0JBAZ002160
LOGIC
IC1005
C0JBAZ002161
LOGIC
INT49
CDOUT49
IC1001
C2HBZZ000015
AC3/DTS
EMWR
RESET
CS
SCLK
SCDIN
DATA0~7
SCDOUT
INTREQ
PARALLELOR SERIAL HOST INTERFACE
CMPOAT
CMPCLK
CMPREQ
SCLKN1
LRCLKN1
SDATAN1
CLKIN
CLKSEL
COMPRESSED DATAINPUT INTERFACE SPDIF RECEIVER
FRAMER SHIFTER
INPUT BUFFER CONTROLLER
DIGITAL AUDIO INPUT INTERFACE
RAM INPUT BUFFER
24-bit DSPPROCESSING
RAM PROGRAM MEMORY
RAM DATA MEMORY
ROM PROGRAM MEMORY
RAM DATA MEMORY
STC
RAM OUTPUT BUFFER
OUTPUTFORMATTER
PLLCLOCK MANAGER
FILT2
VA
AGND
FILT1
MCLK
SCLK
LRCLK
AUDATA0
AUDATA1
AUDATA 2
AU0
AU1
AU2
Q5503
SWITCH
Q5502
SWITCH
Q5501
SWITCH
Q5500
SWITCH
SIGNAL
FAN_LOCK
IC302
C3EBEC000044
EEPROM IC
(NOT SUPPLIED)
Q401
SWITCH
PCONT
IC5400
C0JBAB000011
IC LOGIC
IC5401
C0JBAB000654
IC LOGIC
Q5400
OSCIALLTING SWITCH
Q5401
OSCIALLTING SWITCH
X5400
X5401
Q5006
SWITCH
Q5001
SWITCH
Q5002
SWITCH MODE 1
Q5003
SWITCH MODE 2
Q5004
SWITCH MODE 3
Q201
MUTING SWITCH
Q202
MUTING SWITCH
Q203
MUTING SWITCH
SL_OUT(R)
OSC
CDIN49
CDOUT49
CCLK49
CS49
RST49
INT49
TUNER_CLK
TUNER_ST
TUNER_SD
TUNER_DT
VOL_LATCH
VOL_DAT
VOL_CLK
CDOUT42
INT42
RST42
CS42
PCONT
Q5005
REGULATOR
CS49300_CDIN
CS49300_CDOUT
CS49300_CCLK
CS49300_CS
CS49300_RESET
CS49300_INTREQ
TUNCLK
TUNER_ST
TUNER_SD
TUNDT
VOL_LT
VOL_DT
VOL_CLK
CS42516_CDOUT
CS42516_INT
CS42516_RESET
CS42516_CS
F_HOP
AMP_POWER
PCONT
MUTE_ALL
MUTE_S/C
IC301
C2CBYY000152
MICROPROCESSOR
XOUT
XIN
CF301
REMOTE
Z400
REMOTE SENSOR
ENCA
ENCB
VR400
JOG VOL
+B


IC151
C0ABBB000297
DSP
IC150
C1BB00001134
VOLUME ENCODER IC
COUT
SWOUT
SWOUT
COUT
AF_LOUT
AF_ROUT
SLOUT(R)
MUSIC_PORT
L_AUX(R)
LOUT(R)
Q216
MUTING SWITCH
Q211,Q212
MUTING SWITCH
IC203
C0ABBB000297
OMP AMP
IC552
C1BA0000407
POWER IC
L8503
MODE 3
OSC
MODE 1
SIGNAL
FL+(R+)
SL+
SR+
DC_DET
L+
R+
R-
L-
MUSIC_L(R)
IC207
C0ABBB000297
OMP AMP
IC201
C0ABBB000297
OMP AMP
IC202
C0ABBB000297
OMP AMP
IC200
C0ABBB000297
OMP AMP
IC208
C0ABBB000297
OMP AMP
IC551
C1BA0000407
POWER IC
L8501
IC553
C1BA0000407
POWER IC
OSC
MODE 2
C-
C+
C
L8500
IC554
C1BA0000407
POWER IC
OSC
MODE 1
SW-
SW+
SW
Q204,Q205
MUTING SWITCH
Q206,Q207
MUTING SWITCH
Q214,Q215
MUTING SWITCH
HP401
HEADPHONE
HP402
MUSIC PORT
RCH
MUSIC_L(R)
TUNER_9V
+5V
+7.5V
Q303
SWITCH
DC_DET
FL401
FL DISPLAY
FROM POWER CIRCUIT
33~49
14
4~14
Q404
FL DRIVE
Q403
FL DRIVE
14~23
42
32~41
SEG1
SEG10
GRID1
GRID1
GRID10
IC401
C0HBB0000061
FL DRIVER
D0
CLK
CS
D1
Q301
SWITCH
Q5007
SWITCH
Q302
SWITCH
Q200
MUTING CONTROL
+B
FRONT_MUSIC_SW
RESET
AC_SYNC
DC_DET
BEAT_PROOF
HP_SW
HP_MUTE
FL_D0
FL_CLK
FL_CS
FL_D1
IC301
C2CBYY000152
MICROPROCESSOR
IC301
C2CBYY000152
MICROPROCESSOR
KEY1
KEY2
POWER_SAVE
S406~S408
KEYSW1
S403~S405
KEYSW2
S401
POWER SW
PCONT
FL+(R+)
C-
C+
SW-
SW+
SL+(R+)
SPEAKER
LCH
JK502
JK503
JK503
JK501
Q880
DC DET SWITCH
Q881
DC DET SWITCH
IC850 GT GN
C0DAEMB00003
IC POWER SUPPLY
IC880 GT GN
C0ABBB000297
OP-AMP
Q882
DC DET
Q592
DC DETECT SWITCH
Q591
DC DETECT SWITCH
T701
ETS48AA196AC...GN
ETS42AD4S4AD...GT
TH701
D4CAC8R00002...GN
D4CAA5R10001...GT
Q850
REGULATOR -25V
-B
TRANSFORMER
IC701
C5HABZZ00125...GN
C0DAAMH00004...GT
IC POWER SUPPLY
Q701
REGULATOR
PC701
Q723
PCONT SWITCH
D701
RLY721
L703
ELF21N015E...GN
ELF21N024E...GT
L702
ELF21N015E...GN
ETQR29C012A...GT
L701
AC INLET
Q804
REGULATOR +7.5V
Q803
REGULATOR +7.5V
Q802
REGULATOR -7.5V
IC800 GT GN
C0DAYY00026
IC POWER SUPPLY
Q800
IC801 GT GN
C0DAENB00003
IC POWER SUPPLY
IC802 GT GN
C0CBAEG00007
VOLTAGE REGULATOR
T800
TRANSFORMER
T721
TRANSFORMER
D715
IC721 GT GN
MIP2C10MSSCF
IC POWER SUPPLY
PC721
SIGNAL LINES
: MAIN SIGNAL LINE
( ) Indicates the Pin No. of Right Channel.
NOTE: Signal Lines are applicable to the Left Channel only

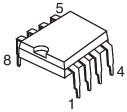
C1BB00001134 (56p)
C0HBB0000061 (44p)
C2CBYY000152 (100p)
C0FBZK000013 (64p)



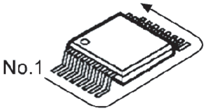
C2HBZZ000015 (44p)



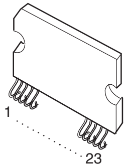
C0ABBB000342
C0ABBB000297



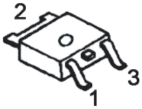
C0JBAZ002160 (14p)
C0JBAZ002161 (14p)



C1BA00000407



C0CBAAG00004 (3p)
C0CBAEG00007



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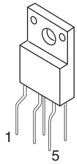

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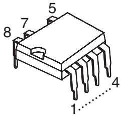

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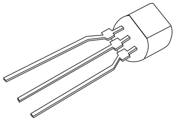
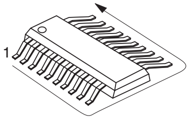


C0JBAB000633 (8p)
C0JBAB000011 (14p)
C0JBAF000654 (14p)



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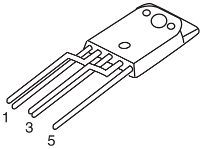

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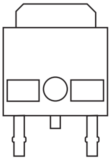

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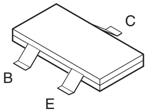

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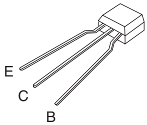

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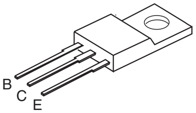

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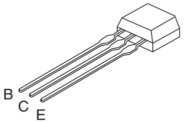

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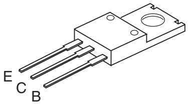

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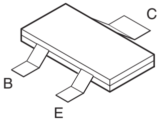
B1GBCFJJ0007
B1ABDC000010



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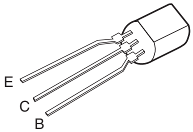

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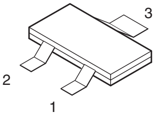

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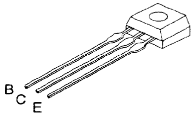
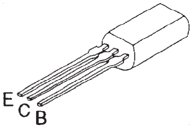
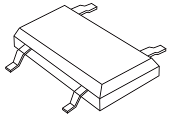
2SD1915FTA



2SC3940ARA



B0EDKT000009



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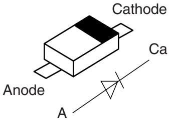
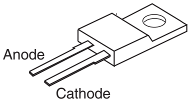
B0ACCE000003


Cathode
Ca
Anode
A

B0HASM000003


Anode
Cathode

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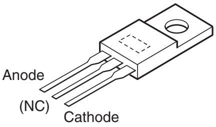
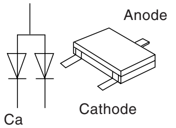
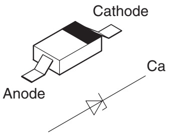

Anode
(NC)
Cathode

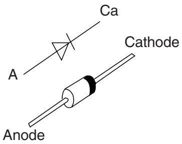
B0ADCJ000020


Anode
Ca
Cathode

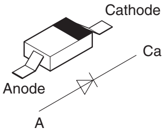
MAZ80560ML
B0BC8R100004
MAZ80620ML


Cathode
Ca
Anode

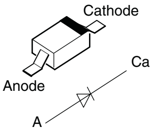
B0HANM000012
B0BC02900004
B0HAJL000001
B0HAGR000002
B0JAME000025
B0JAJG000002


Ca
Cathode
A
Anode

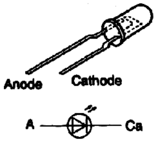
B0BC01400019
B0BC01700015
B0BC4R600016
B0BC02400011


Cathode
Ca
Anode
A

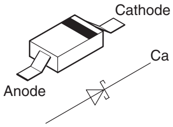
B0BC035A0007
B0JCAE000001


Cathode
Ca
Anode
A

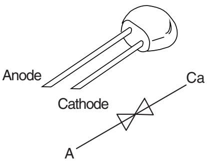
SLR342VC


Anode
Cathode
A
Ca

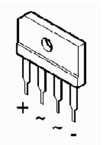
MA2Q73800L
MAZ80390LL


Cathode
Ca
Anode

ERZV10V511CS


Anode
Ca
Cathode
A

B0FFAR000001
B0FFKC000001



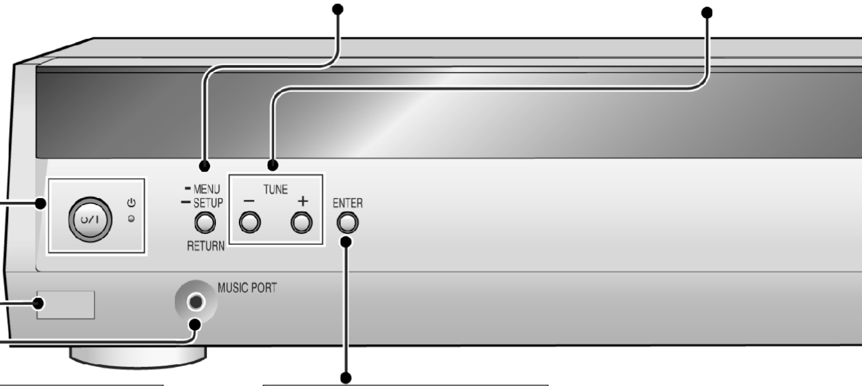
Main unit

Standby indicator [⏻]
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

Standby/on switch [⏻/I]
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.

[-MENU, –SETUP, RETURN]
- For entering menus to make various settings.
- For returning to previous menus.

[TUNE, −, +]
For tuning the radio and selecting menu or setup items.



Remote control signal sensor

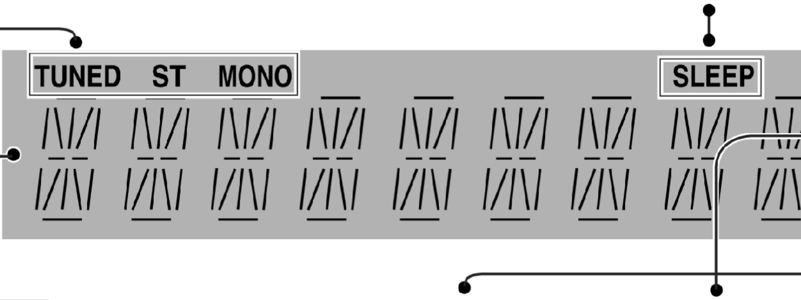
[MUSIC PORT]
- You can playback sound from portable audio equipment.
- Reduce the volume to minimum before connecting and disconnecting the equipment.
- Use an audio cord for connection.

[ENTER]
Used during menu or setup operations.

Display

[TUNED, ST, MONO]
Radio indicators
TUNED: A station is tuned
ST: A stereo FM broadcast is tuned
MONO: You have switched to monaural mode to improve reception

[SLEEP]
Sleep timer indicator.



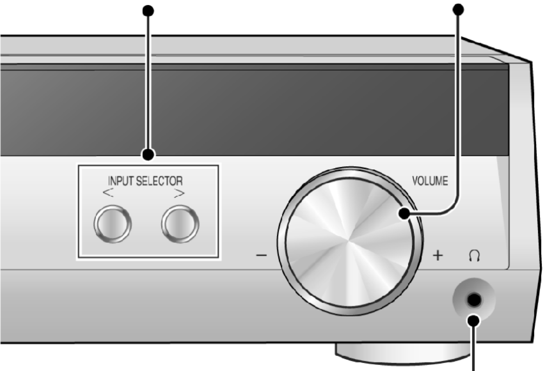
General display
Shows the input mode, radio frequency and other general information.

[kHz, MHz]
Frequency unit indicators
kHz: AM, or PCM sampling frequency
MHz: FM

[M]
Flashes or lights during presetting.

[INPUT SELECTOR, <, >]
For selecting input.

[VOLUME]
Volume control.

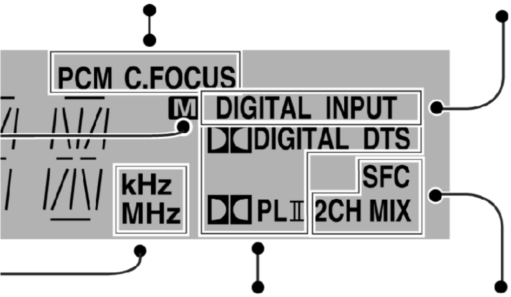

INPUT SELECTOR
<
>
VOLUME
–
+
∩

[∩]
Headphone jack
Plug type: 3.5 mm stereo

- Sound does not come from the speakers if you connect headphones.
- Avoid listening for prolonged periods of time to prevent hearing damage.

[PCM, C. FOCUS]
PCM: Lights when the PCMFIX mode is set
C.FOCUS: Appears when you are using Center Focus

[DIGITAL INPUT]
Lights when input is digital.


PCM C.FOCUS
M
DIGITAL INPUT
ᗡᗞDIGITAL DTS
SFC
kHz
MHz
ᗡᗞPL II
2CH MIX

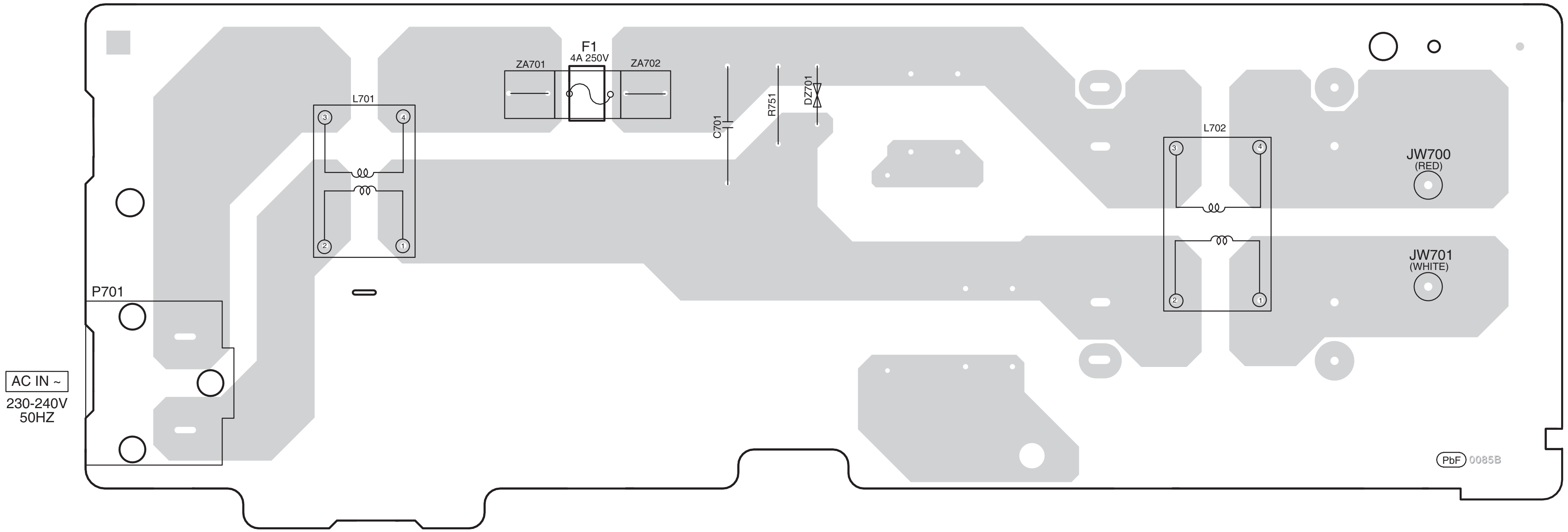
[ᗡᗞ DIGITAL, DTS, ᗡᗞ PL II]
Lights to indicate the source's input signal and decoding format used.
ᗡᗞ DIGITAL: Dolby Digital sources
DTS: DTS sources
ᗡᗞ PL II: Dolby Pro LogicII decoder is being used

[SFC, 2CH MIX]
SFC: Appears when you are using an SFC mode
2CH MIX: Appears when you are listening to a multi-channel source with headphones

A B C D E F G H I J K L M N O P

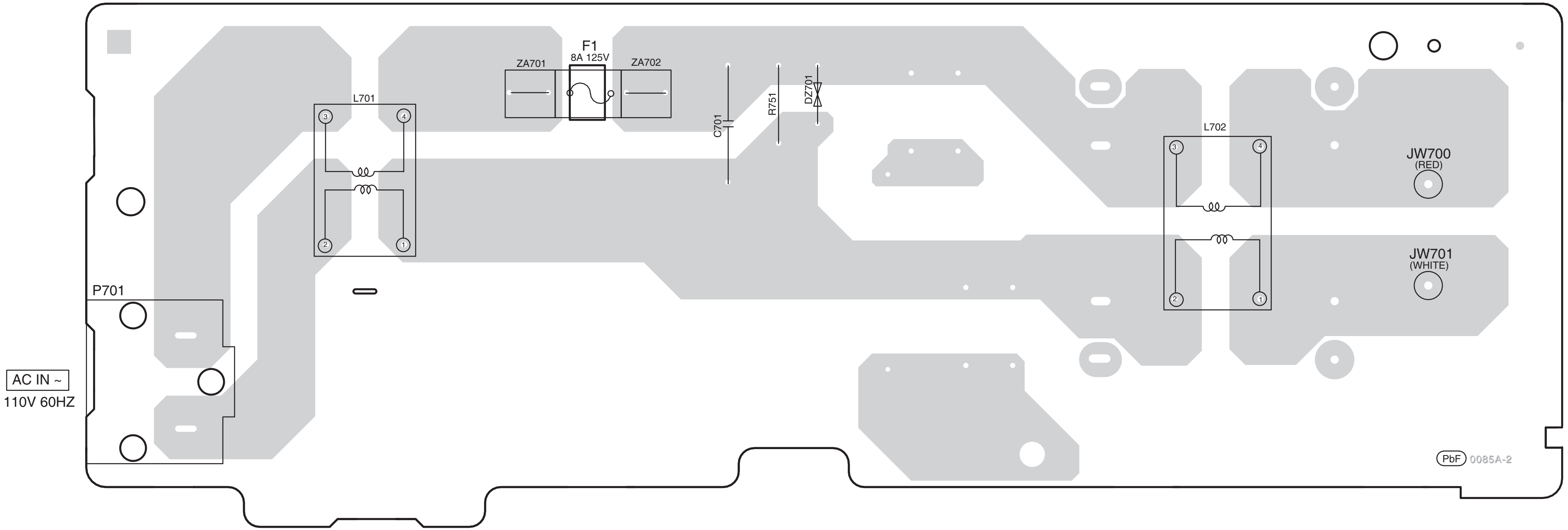
1 2 3 4 5 6 7 8 9

H AC IN P.C.B (REPV0085B-P...GN)



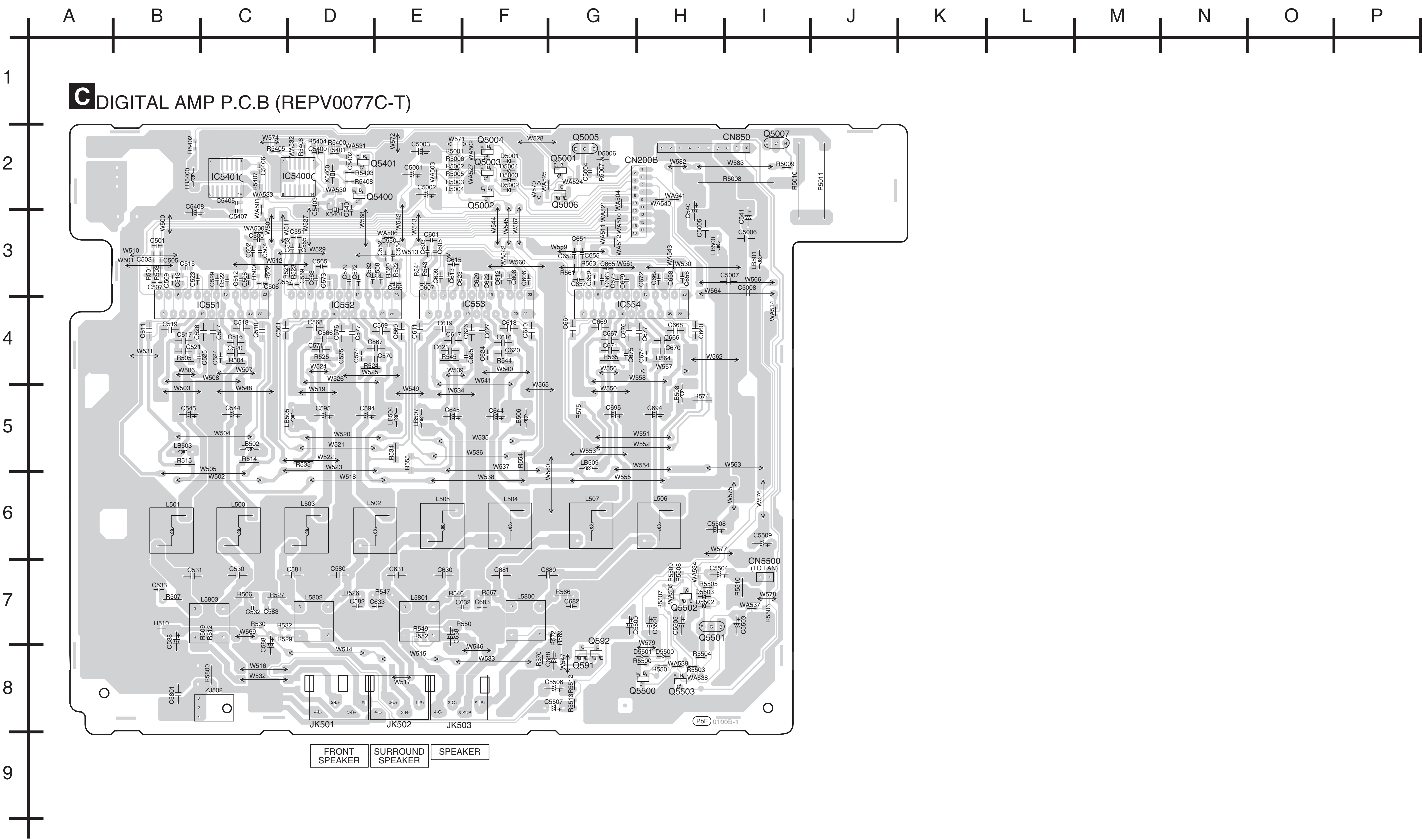
F1
4A 250V
ZA701
ZA702
L701
C701
R751
DZ701
L702
JW700
(RED)
JW701
(WHITE)
P701
AC IN ~
230-240V
50HZ
PbF 0085B

H AC IN P.C.B (REPV0085D-P...GT)

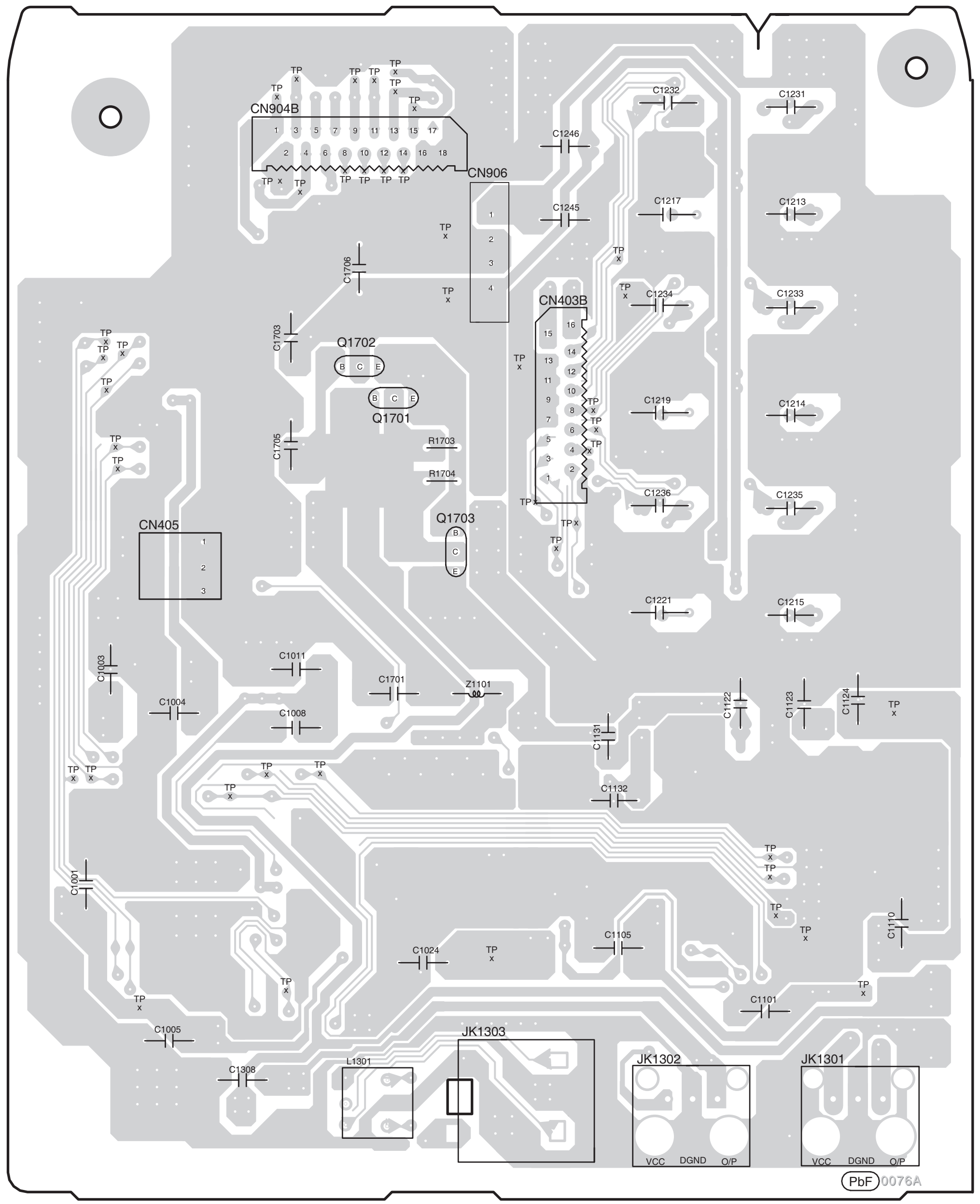


F1
8A 125V
ZA701
ZA702
L701
C701
R751
DZ701
L702
JW700
(RED)
JW701
(WHITE)
P701
AC IN ~
110V 60HZ
PbF 0085A-2

C DIGITAL AMP P.C.B (REPV0077C-T)


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
IC5401
IC5400
Q5401
Q5400
Q5004
Q5003
Q5002
Q5005
Q5001
Q5006
CN200B
CN850
Q5007
IC551
IC552
IC553
IC554
L501
L500
L503
L502
L505
L504
L507
L506
L5803
L5802
L5801
L5800
CN5500
(TO FAN)
Q5502
Q5501
Q592
Q591
Q5500
Q5503
ZJ502
JK501
JK502
JK503
FRONT SPEAKER
SURROUND SPEAKER
SPEAKER
PbF
0100B-1

A DSP P.C.B (REPV0076A-T)


A
B
C
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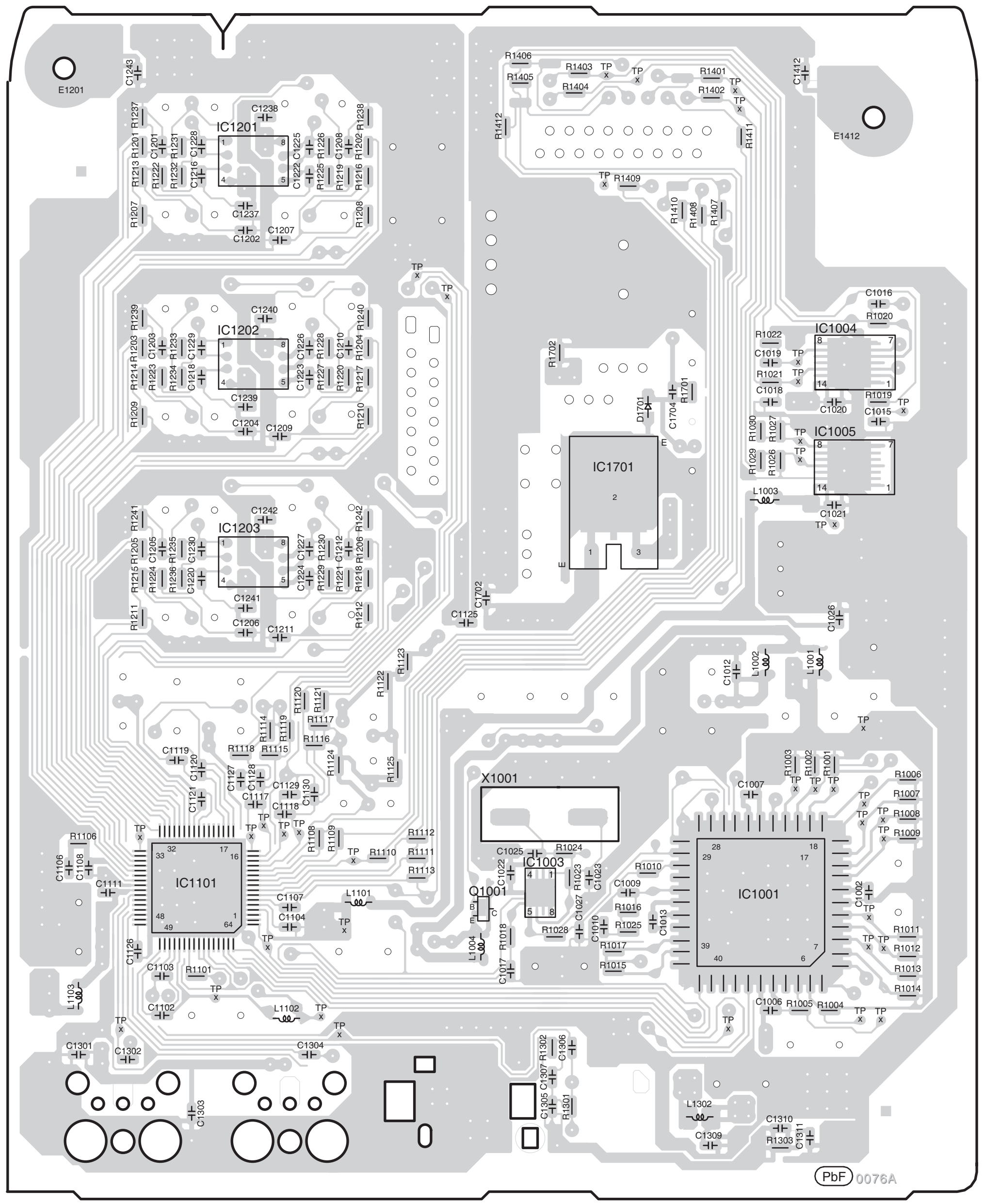
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
CN904B
CN906
CN403B
CN405
Q1702
Q1701
Q1703
R1703
R1704
C1706
C1703
C1705
C1232
C1231
C1246
C1245
C1217
C1213
C1234
C1233
C1219
C1214
C1236
C1235
C1221
C1215
C1011
C1701
Z1101
C1008
C1004
C1003
C1122
C1123
C1124
C1131
C1132
C1001
C1024
C1105
C1110
C1101
C1005
C1308
L1301
JK1303
JK1302
JK1301
VCC
DGND
O/P
PbF
0076A

(SIDE A)

DIGITAL IN COAXIAL

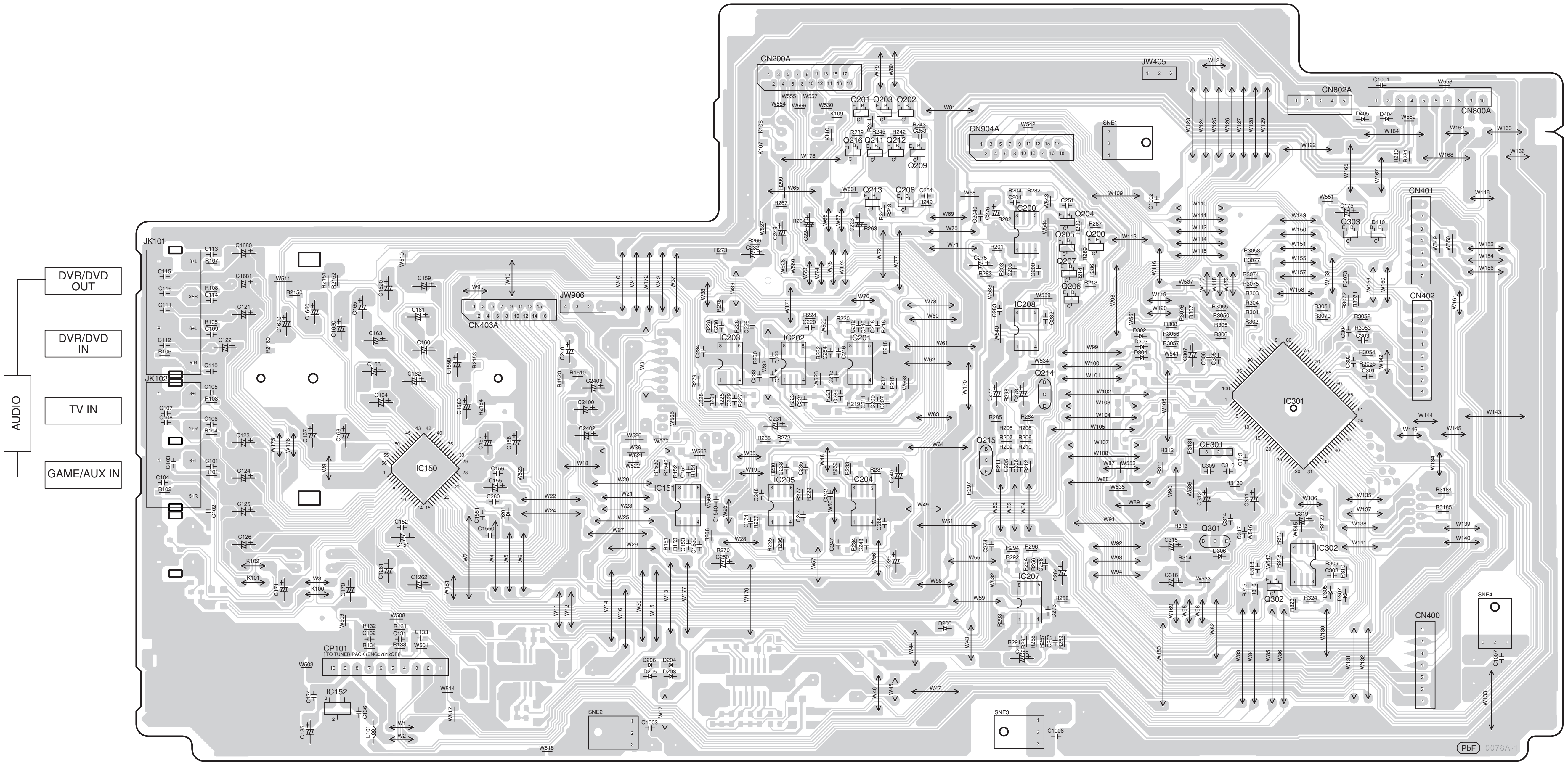
DIGITAL IN DVR/DVD OPT 2

DIGITAL IN TV OPT 1

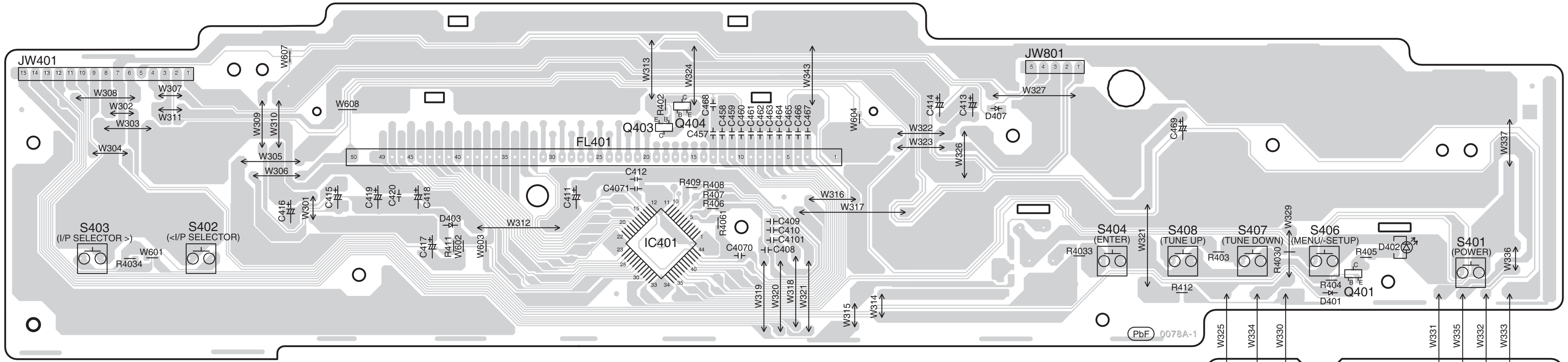

E1201
E1412
IC1201
IC1202
IC1203
IC1004
IC1005
IC1701
IC1101
IC1003
IC1001
X1001
Q1001
L1003
L1101
L1102
L1103
L1004
L1302
R1406
R1405
R1403
R1404
R1401
R1402
R1409
R1410
R1408
R1407
R1412
R1411
R1702
D1701
C1704
C1016
R1020
R1022
C1019
R1021
C1018
C1020
R1019
C1015
C1021
C1125
C1702
C1012
L1002
L1001
C1007
C1025
R1024
C1009
R1010
R1016
R1025
R1017
R1015
R1028
R1006
R1007
R1008
R1009
R1011
R1012
R1013
R1014
C1006
R1005
R1004
R1106
C1111
C1103
R1101
C1102
C1301
C1302
C1303
C1304
C1305
C1309
C1310
C1311
R1303
PbF
0076A

(SIDE B)

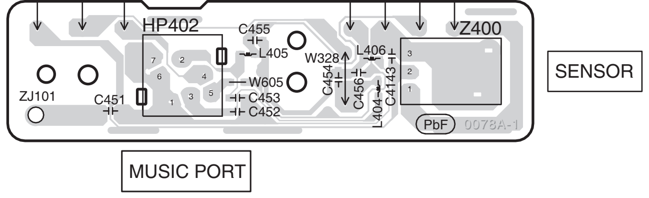
B MAIN P.C.B (REPV0078C-M)


AUDIO
DVR/DVD OUT
DVR/DVD IN
TV IN
GAME/AUX IN
JK101
JK102
CN200A
CN904A
CN403A
JW906
JW405
CN802A
CN800A
CN401
CN402
CN400
CP101
(TO TUNER PACK (ENG07812QF))
IC150
IC151
IC152
IC200
IC201
IC202
IC203
IC204
IC205
IC207
IC208
IC301
IC302
CF301
SNE1
SNE2
SNE3
SNE4
PbF
0078A-1

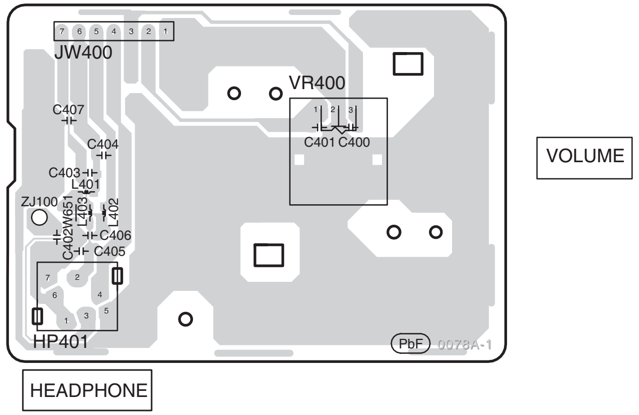
D PANEL P.C.B (REPV0078C-M)


JW401
W308
W307
W302
W311
W303
W304
W309
W310
W305
W306
W607
W608
W313
W324
W343
R402
Q403
Q404
C468
C457
C458
C459
C460
C461
C462
C463
C464
C465
C466
C467
FL401
W604
W322
W323
C414
C413
D407
W327
JW801
W326
C469
W337
S403
(I/P SELECTOR >)
S402
(<I/P SELECTOR)
W601
R4034
C416
W301
C415
C419
C420
C418
C412
C4071
C411
D403
W312
C417
R411
W602
W603
R409
R408
R407
R406
R4061
IC401
C409
C410
C4101
C4070
C408
W316
W317
W319
W320
W318
W321
W315
W314
S404
(ENTER)
R4033
W321
S408
(TUNE UP)
R403
R412
S407
(TUNE DOWN)
R4030
W329
S406
(MENU/-SETUP)
R405
R404
D401
Q401
D402
S401
(POWER)
W336
PbF
0078A-1

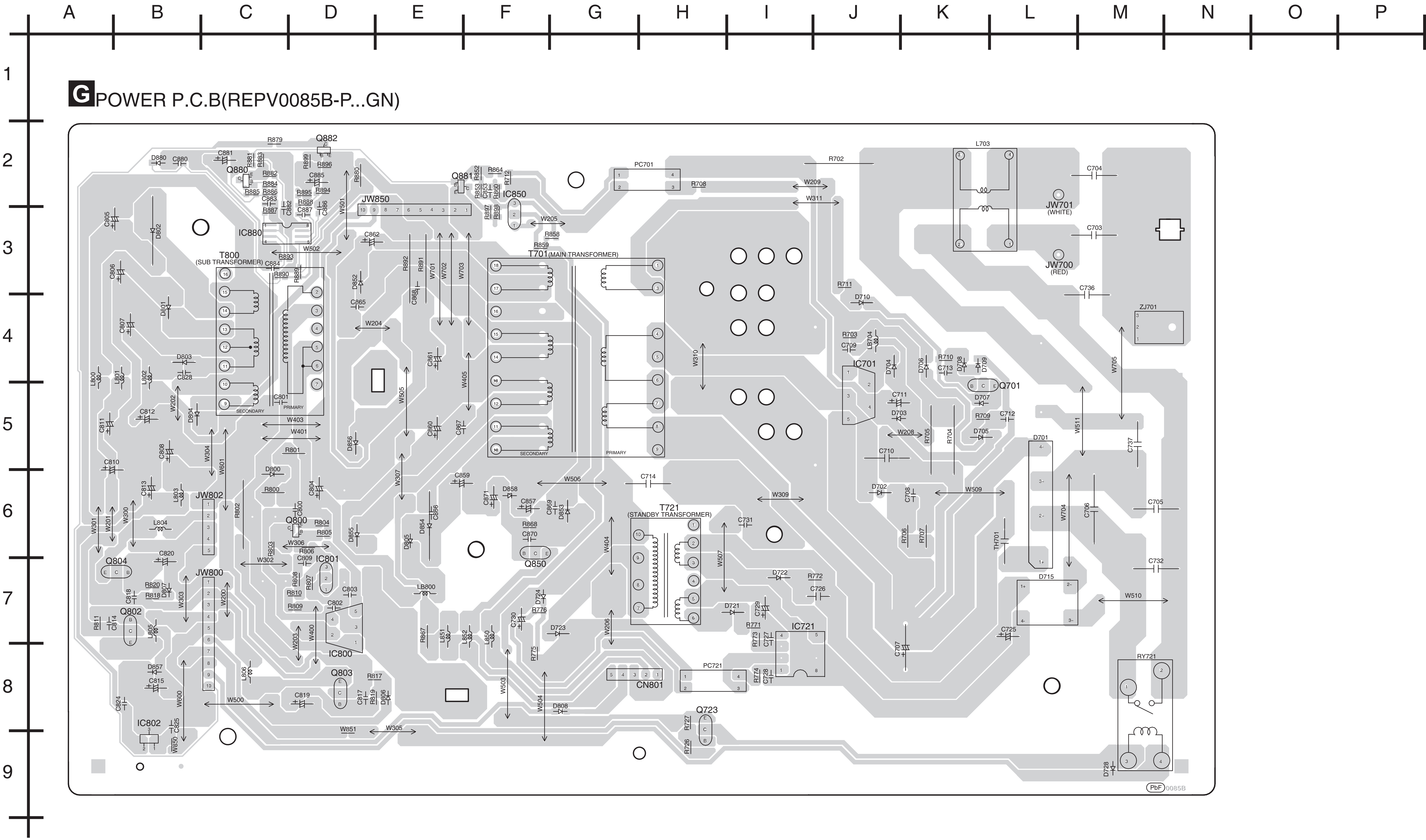
F MUSIC PORT P.C.B (REPV0078C-M)


W325
W334
W330
W331
W335
W332
W333
HP402
C455
L405
W328
L406
Z400
W605
C453
C452
C451
ZJ101
C454
C456
C4143
L404
PbF
0078A-1
SENSOR
MUSIC PORT

E VOLUME P.C.B (REPV0078C-M)


JW400
VR400
C401
C400
C407
C404
C403
L401
ZJ100
W651
L403
L402
C406
C402
C405
HP401
PbF
0078A-1
VOLUME
HEADPHONE

G POWER P.C.B(REPV0085B-P...GN)


A
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6
7
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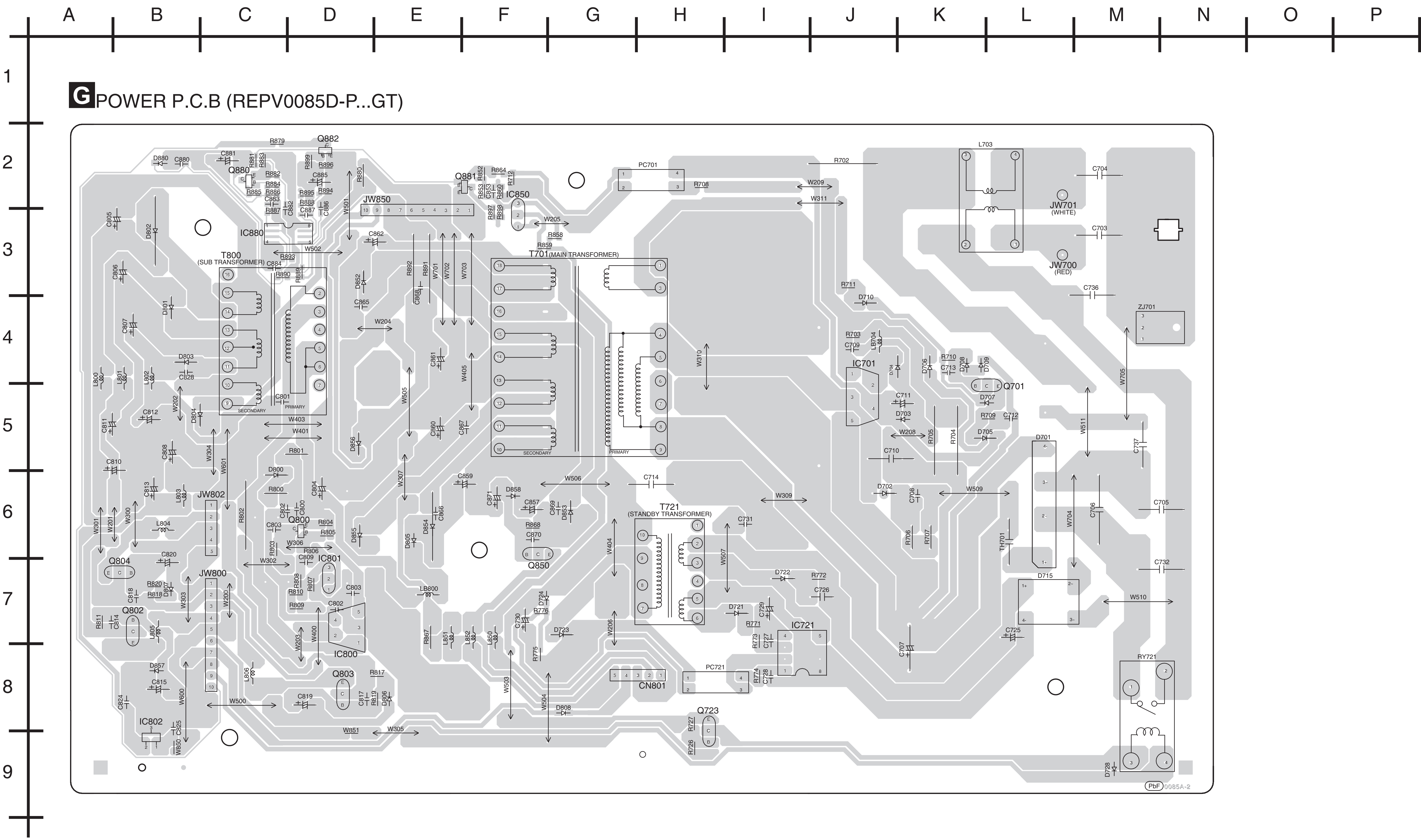
9
D880
C880
C881
R881
R883
Q880
R885
R882
R884
R886
C883
R887
C882
R879
Q882
R899
R896
C885
R895
R894
R888
C887
C886
R880
W501
IC880
W502
R893
C884
R890
R889
T800
(SUB TRANSFORMER)
SECONDARY
PRIMARY
C801
C805
D802
C806
D801
C807
D803
C828
L800
L801
L802
C812
W202
D804
C811
W403
W401
W304
W601
C808
C810
R801
D800
R800
C804
C813
L803
JW802
R802
Q800
C800
R804
R805
W301
W201
W300
L804
W306
R806
R803
W302
C809
IC801
Q804
C820
JW800
W200
R808
R807
C803
R820
R818
D807
C818
W303
R810
C802
R809
Q802
R811
C814
L805
W203
W400
IC800
D857
C815
L806
Q803
R817
W600
W500
C819
C817
R819
D806
C824
IC802
C825
W850
W851
W305
JW850
C862
R892
R891
W701
W702
W703
D852
C868
C865
W204
W505
W405
C861
D856
C860
C867
W307
C859
D855
D854
C866
D805
LB800
R867
L851
L852
L850
C730
R775
W503
W504
D808
Q881
R852
R864
R712
R853
C853
R860
IC850
R897
R898
W205
R858
R859
T701
(MAIN TRANSFORMER)
C871
D858
C857
C869
D853
R868
C870
Q850
W506
D724
R776
D723
W404
W206
CN801
PC701
R708
R702
W209
W311
W310
C714
T721
(STANDBY TRANSFORMER)
C731
W507
W309
D722
R772
C726
D721
C729
R771
R773
C727
IC721
PC721
R774
C728
Q723
R727
R726
R711
D710
R703
C709
LB704
IC701
D704
D706
R710
C713
D708
D709
Q701
C711
D707
D703
R709
C712
D705
W208
R705
R704
C710
D702
C708
W509
R706
R707
TH701
D701
C707
L703
C704
JW701
(WHITE)
C703
JW700
(RED)
C736
ZJ701
W705
W511
C737
W704
C706
C705
C732
D715
W510
C725
RY721
D728
PbF
0085B

G POWER P.C.B (REPV0085D-P...GT)


A
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6
7
8
9
R879
Q882
D880
C880
C881
R881
R883
Q880
R882
R884
R885
R886
C883
R887
C882
R899
R896
C885
R894
R895
R888
C887
C886
R880
W501
JW850
10 9 8 7 6 5 4 3 2 1
Q881
R852
R864
R712
R853
C853
R860
IC850
R897
R898
W205
R858
R859
PC701
R708
W209
W311
R702
L703
C704
JW701
(WHITE)
C703
JW700
(RED)
C736
ZJ701
C805
D802
IC880
W502
R893
T800
(SUB TRANSFORMER)
C884
R890
R889
C862
D852
C865
R892
R891
W701
W702
W703
C868
T701 (MAIN TRANSFORMER)
W204
C806
D801
C807
D803
C828
L800
L801
L802
C801
SECONDARY
PRIMARY
W202
D804
C812
C811
W403
W401
C861
W405
W505
C860
C867
D856
W310
R711
D710
R703
C709
LB704
IC701
D704
D706
R710
C713
D708
D709
Q701
C711
D707
D703
R709
C712
W208
R705
R704
D705
W511
W705
C737
C710
D701
C810
C808
W304
W601
R801
D800
R800
C804
W307
C859
C871
D858
C857
C869
D853
W506
C714
W309
D702
C708
W509
C713
C705
C706
W704
C813
L803
JW802
R802
C802
C800
Q800
C803
R804
R805
W306
R803
R806
IC801
W302
C809
D855
D805
D854
C866
R868
C870
Q850
W404
T721
(STANDBY TRANSFORMER)
C731
W507
R706
R707
TH701
W301
W201
W300
L804
Q804
C820
JW800
R820
D807
R818
C818
W303
W200
R808
R810
R807
R809
C803
C802
IC800
LB800
D724
R776
C730
D723
W206
D722
R772
C726
D721
C729
R771
R773
C727
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D715
C725
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C732
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Q803
R817
C819
C817
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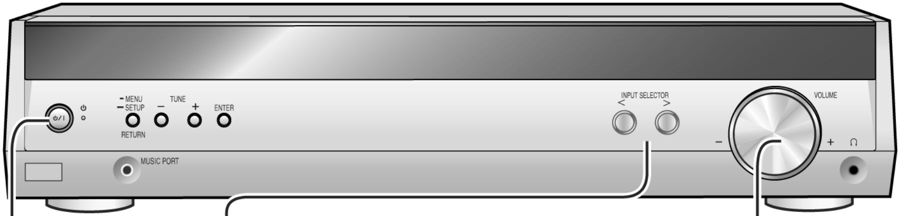
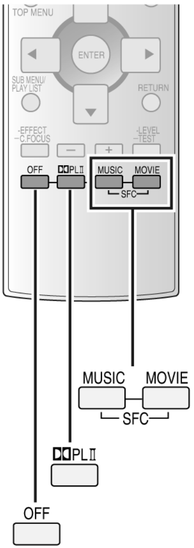
D806
W503
W504
D808
CN801
5 4 3 2 1
PC721
R774
C728
RY721
C824
W600
IC802
C825
W850
W500
W851
W305
Q723
R727
R726
D728
PbF 0085A-2



ᐅ/I
⏻
MENU
SETUP
RETURN
TUNE
–
+
ENTER
MUSIC PORT
INPUT SELECTOR
<
>
VOLUME
–
+
∩



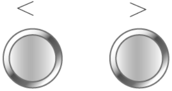
TOP MENU
ENTER
SUB MENU/
PLAY LIST
RETURN
-EFFECT
–C.FOCUS
-LEVEL
–TEST
–
+
OFF
ᗡᗞPLⅡ
MUSIC
MOVIE
SFC
MUSIC
MOVIE
SFC
ᗡᗞPLⅡ
OFF

1

Switch on.

2

INPUT SELECTOR



Select input.

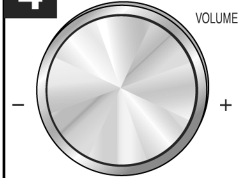
TUNER FM ←→ TUNER AM ←→ TV
↕
MUSIC PORT
↑
└→ GAME/AUX ←→ DVR/DVD-P

3

Start play of the source.

The unit sets the sound mode to suit the input signal.

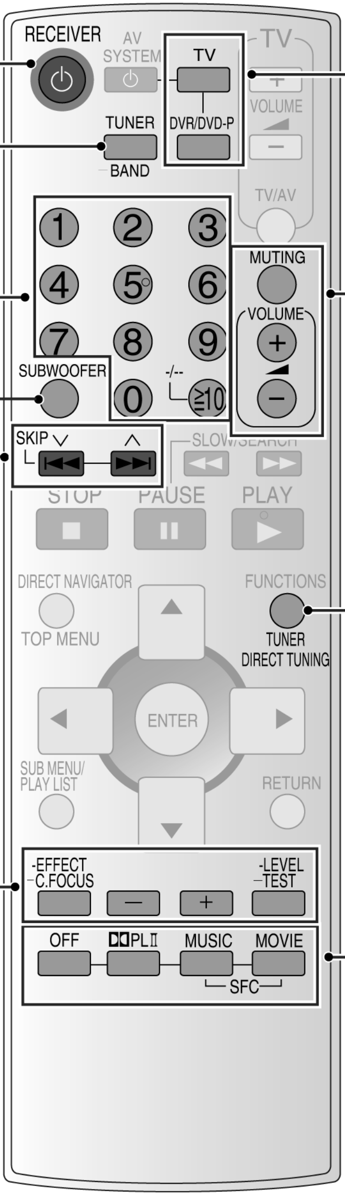
4



Adjust the volume.

Remote control

This page describes the buttons used to control this unit.


RECEIVER
AV SYSTEM
TV
TV
VOLUME
DVR/DVD-P
TUNER
BAND
TV/AV
1
2
3
4
5
6
7
8
9
0
MUTING
VOLUME
SUBWOOFER
-/--
≧10
SKIP
SLOW/SEARCH
STOP
PAUSE
PLAY
DIRECT NAVIGATOR
TOP MENU
FUNCTIONS
TUNER DIRECT TUNING
ENTER
SUB MENU/ PLAY LIST
RETURN
-EFFECT
–C.FOCUS
-LEVEL
–TEST
OFF
DD PLII
MUSIC
MOVIE
SFC

[⏻, RECEIVER]
Standby/on button.

[TUNER, –BAND]
For switching the remote control to TUNER mode and selecting TUNER.
After selecting TUNER, press and hold to switch between FM and AM.

[1, 2, 3, 4, 5, 6, 7, 8, 9, 0]
To enter radio frequencies and channels.
[≧10, -/--]
To enter two digit channels.

[SUBWOOFER]
For selecting subwoofer level.

[|◀◀, ∨, ▶▶|, ∧, SKIP]
For selecting preset radio channels.

[-EFFECT, –C.FOCUS]
Use when adjusting Dolby Pro LogicII or SFC effects.
Press and hold to select center focus mode.
[-, +]
First select [-EFFECT] or [-LEVEL, –TEST], then press [-] or [+] to adjust.
[-LEVEL, –TEST]
Use when adjusting speaker level.
Press and hold to start the speaker test signal.

[TV] [DVR/DVD-P]
Input mode and remote control mode buttons.

[MUTING]
To mute the volume.
[+, -, VOLUME]
To adjust the volume.

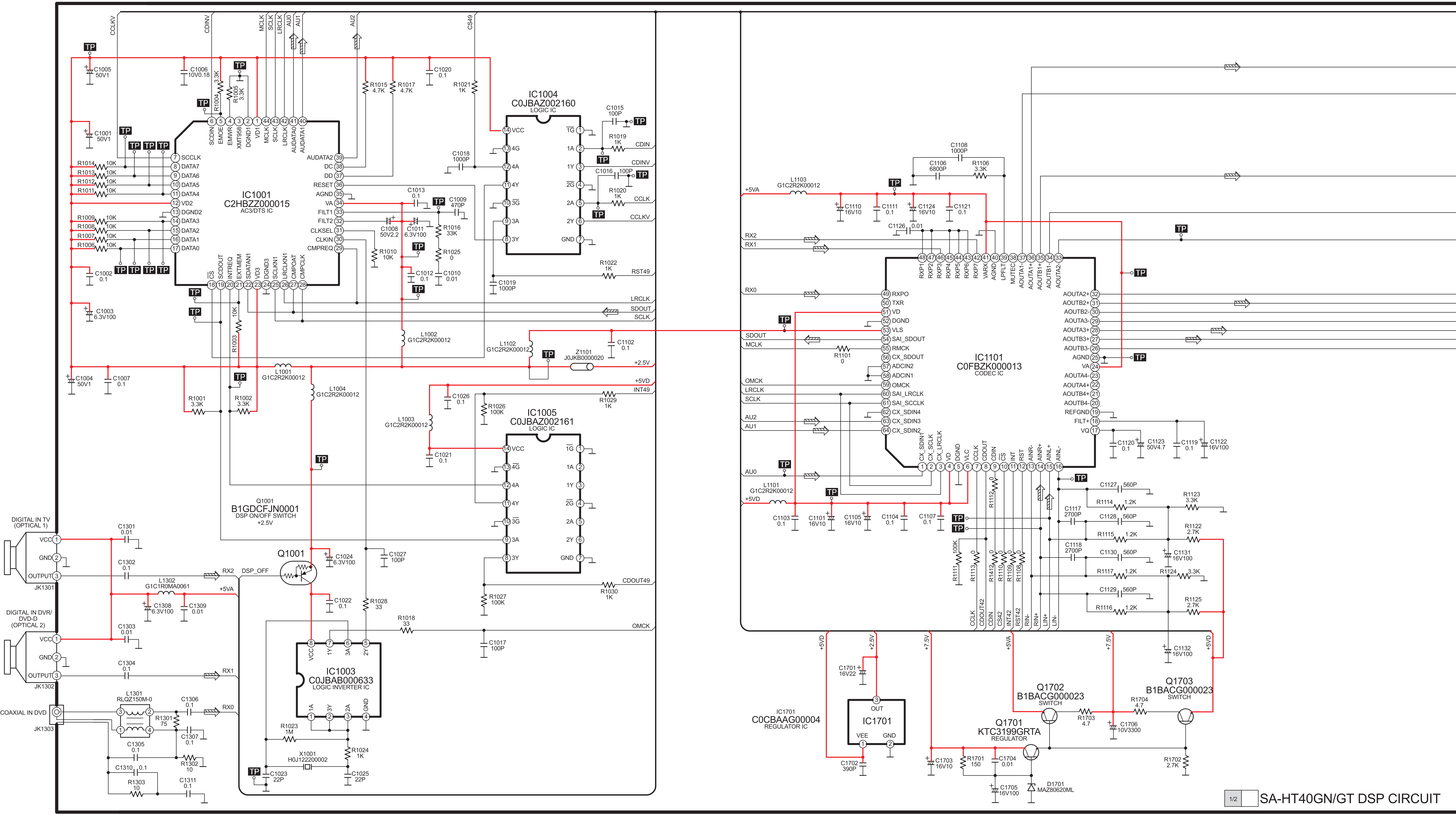
[TUNER DIRECT TUNING]
To enable selection of radio stations by frequency.

[OFF]
To cancel Dolby Pro LogicII and SFC.
[DD PLII]
For selecting a Dolby Pro LogicII mode: MOVIE, MUSIC or PANORAMA.
[MUSIC]
For selecting SFC modes: LIVE, POP/ ROCK, VOCAL, JAZZ, DANCE or PARTY.
[MOVIE]
For selecting SFC modes: DRAMA, ACTION, SPORTS, MUSICAL, GAME or MONO.

SCHEMATIC DIAGRAM - 1

A DSP CIRCUIT

: +B SIGNAL LINE
: -B SIGNAL LINE
: MAIN SIGNAL LINE



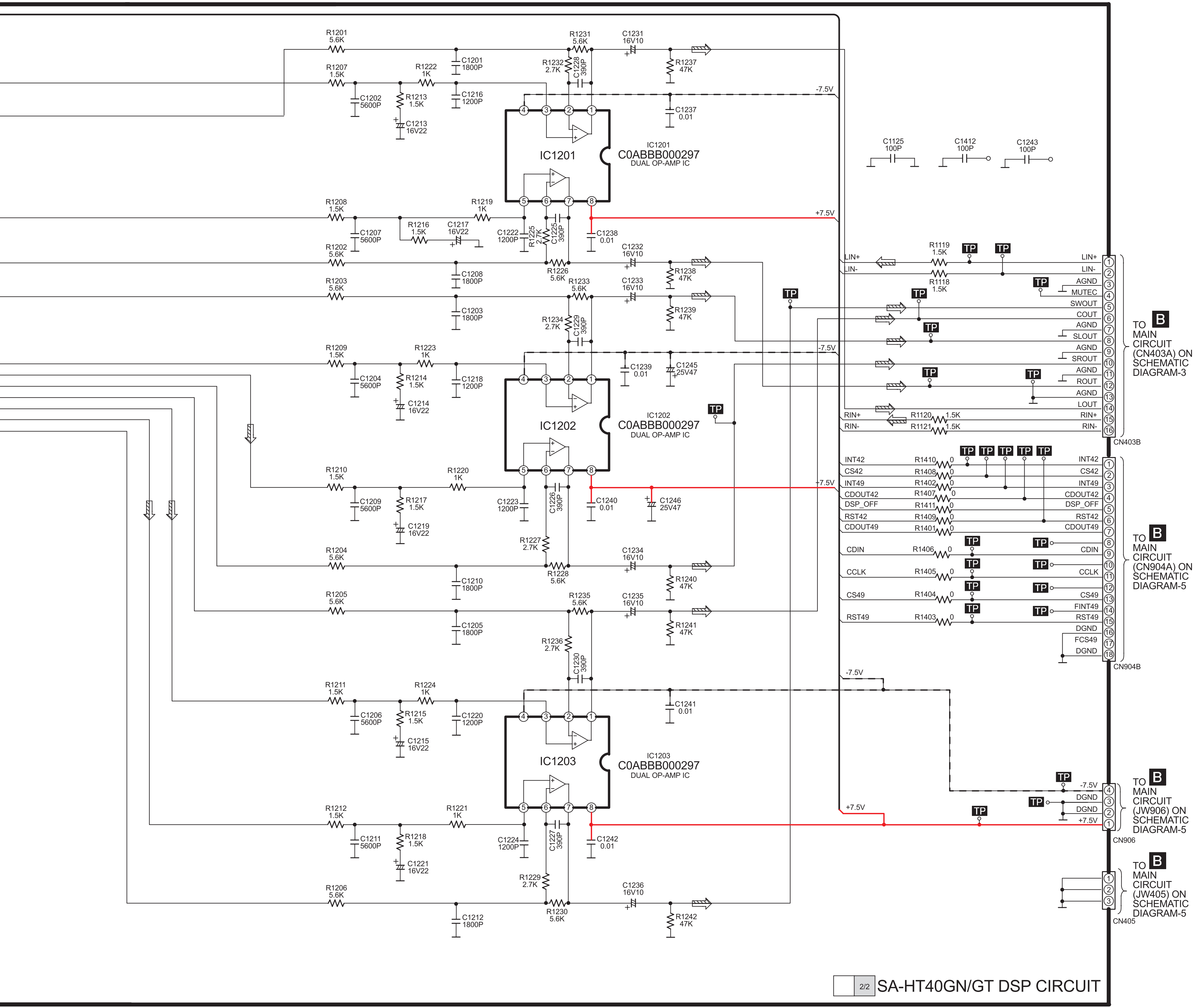
CCLKV
CDINV
MCLK
SCLK
LRCLK
AU0
AU1
AU2
CS49
TP
C1005 50V1
C1006 10V0.18
R1004 3.3K
R1005 3.3K
R1015 4.7K
R1017 4.7K
C1020 0.1
R1021 1K
C1001 50V1
R1014 10K
R1013 10K
R1012 10K
R1011 10K
R1009 10K
R1008 10K
R1007 10K
R1006 10K
C1002 0.1
C1003 6.3V100
IC1001
C2HBZZ000015
AC3/DTS IC
SCCLK
DATA7
DATA6
DATA5
DATA4
VD2
DGND2
DATA3
DATA2
DATA1
DATA0
SCDIN
EMOE
EMWR
XMT958
DGND1
VD1
MCLK
SCLK
LRCLK
AUDATA0
AUDATA1
AUDATA2
DC
DD
RESET
AGND
VA
FILT1
FILT2
CLKSEL
CLKIN
CMPREQ
CS
SCDOUT
INTREQ
EXTMEM
SDATAN1
VD3
DGND3
SCLKN1
LRCLKN1
CMPDAT
CMPCLK
C1013 0.1
C1009 470P
C1008 50V2.2
C1011 6.3V100
R1016 33K
R1025 0
R1010 10K
C1012 0.1
C1010 0.01
C1018 1000P
IC1004
C0JBAZ002160
LOGIC IC
VCC
4G
4A
4Y
3G
3A
3Y
1G
1A
1Y
2G
2A
2Y
GND
C1015 100P
R1019 1K
CDIN
CDINV
C1016 100P
R1020 1K
CCLK
CCLKV
C1019 1000P
R1022 1K
RST49
LRCLK
SDOUT
SCLK
R1003 10K
L1002 G1C2R2K00012
L1102 G1C2R2K00012
Z1101 J0JKB0000020
C1102 0.1
+2.5V
C1004 50V1
C1007 0.1
L1001 G1C2R2K00012
L1004 G1C2R2K00012
R1001 3.3K
R1002 3.3K
+5VD
INT49
C1026 0.1
R1026 100K
R1029 1K
L1003 G1C2R2K00012
IC1005
C0JBAZ002161
LOGIC IC
C1021 0.1
Q1001
B1GDCFJN0001
DSP ON/OFF SWITCH
+2.5V
DIGITAL IN TV (OPTICAL 1)
VCC
GND
OUTPUT
JK1301
C1301 0.01
C1302 0.1
L1302 G1C1R0MA0061
RX2
DSP_OFF
+5VA
C1308 6.3V100
C1309 0.01
DIGITAL IN DVR/DVD-D (OPTICAL 2)
JK1302
C1303 0.01
C1304 0.1
RX1
COAXIAL IN DVD
JK1303
L1301 RLQZ150M-0
R1301 75
C1306 0.1
RX0
C1307 0.1
C1305 0.1
R1302 10
C1310 0.1
R1303 10
C1311 0.1
Q1001
C1024 6.3V100
C1027 100P
C1022 0.1
R1028 33
R1018 33
OMCK
C1017 100P
R1027 100K
R1030 1K
CDOUT49
IC1003
C0JBAB000633
LOGIC INVERTER IC
R1023 1M
R1024 1K
X1001 H0J122200002
C1023 22P
C1025 22P
+5VA
L1103 G1C2R2K00012
C1110 16V10
C1111 0.1
C1124 16V10
C1121 0.1
C1106 6800P
C1108 1000P
R1106 3.3K
C1126 0.01
RX2
RX1
RX0
IC1101
C0FBZK000013
CODEC IC
RXP0
TXR
VD
DGND
VLS
SAI_SDOUT
RMCK
CX_SDOUT
ADCIN2
ADCIN1
OMCK
SAI_LRCLK
SAI_SCCLK
CX_SDIN4
CX_SDIN3
CX_SDIN2
RXP1
RXP2
RXP3
RXP4
RXP5
RXP6
RXP7
VARX
AGND
LPFLT
MUTEC
AOUTA1-
AOUTA1+
AOUTB1+
AOUTB1-
AOUTA2-
AOUTA2+
AOUTB2+
AOUTB2-
AOUTA3-
AOUTA3+
AOUTB3+
AOUTB3-
AGND
VA
AOUTA4-
AOUTA4+
AOUTB4+
AOUTB4-
REFGND
FILT+
VQ
CX_SDIN1
CX_SCLK
CX_LRCLK
VD
DGND
VLC
CCLK
CDOUT
CDIN
CS
INT
RST
AINR-
AINR+
AINL+
AINL-
SDOUT
MCLK
R1101 0
OMCK
LRCLK
SCLK
AU2
AU1
AU0
C1120 0.1
C1123 50V4.7
C1119 0.1
C1122 16V100
L1101 G1C2R2K00012
+5VD
C1103 0.1
C1101 16V10
C1105 16V10
C1104 0.1
C1107 0.1
R1112 0
C1127 560P
R1114 1.2K
R1123 3.3K
C1117 2700P
C1128 560P
R1115 1.2K
R1122 2.7K
C1118 2700P
C1130 560P
C1131 16V100
R1117 1.2K
R1124 3.3K
C1129 560P
R1116 1.2K
R1125 2.7K
R1111 100K
R1113 0
R1412 0
R1110 0
R1109 0
R1108 0
CCLK
CDOUT42
CDIN
CS42
INT42
RST42
RIN-
RIN+
LIN+
LIN-
+5VD
+2.5V
+7.5V
+5VA
+7.5V
+5VD
C1701 16V22
IC1701
C0CBAAG00004
REGULATOR IC
OUT
IC1701
VEE
GND
C1702 390P
C1703 16V10
R1701 150
C1704 0.01
C1705 16V100
D1701 MAZ80620ML
Q1701
KTC3199GRTA
REGULATOR
Q1702
B1BACG000023
SWITCH
R1703 4.7
C1706 10V3300
R1704 4.7
Q1703
B1BACG000023
SWITCH
C1132 16V100
R1702 2.7K

1/2 SA-HT40GN/GT DSP CIRCUIT

SCHEMATIC DIAGRAM - 2

A DSP CIRCUIT

―― : +B SIGNAL LINE
- - - : -B SIGNAL LINE
⇨ : MAIN SIGNAL LINE


R1201 5.6K
R1207 1.5K
R1222 1K
C1201 1800P
C1202 5600P
R1213 1.5K
C1216 1200P
C1213 16V22
R1231 5.6K
C1231 16V10
R1232 2.7K
C1228 390P
R1237 47K
C1237 0.01
-7.5V
IC1201
IC1201 C0ABBB000297 DUAL OP-AMP IC
C1125 100P
C1412 100P
C1243 100P
R1208 1.5K
C1207 5600P
R1216 1.5K
C1217 16V22
R1219 1K
C1222 1200P
R1225 2.7K
C1225 390P
C1238 0.01
+7.5V
R1202 5.6K
C1208 1800P
R1226 5.6K
C1232 16V10
R1238 47K
R1203 5.6K
C1203 1800P
R1233 5.6K
C1233 16V10
R1239 47K
R1234 2.7K
C1229 390P
R1209 1.5K
R1223 1K
C1204 5600P
R1214 1.5K
C1218 1200P
C1214 16V22
C1239 0.01
C1245 25V47
IC1202
IC1202 C0ABBB000297 DUAL OP-AMP IC
R1210 1.5K
R1220 1K
C1209 5600P
R1217 1.5K
C1219 16V22
C1223 1200P
C1226 390P
C1240 0.01
C1246 25V47
R1227 2.7K
R1204 5.6K
C1210 1800P
R1228 5.6K
C1234 16V10
R1240 47K
R1205 5.6K
C1205 1800P
R1235 5.6K
C1235 16V10
R1241 47K
R1236 2.7K
C1230 390P
R1211 1.5K
R1224 1K
C1206 5600P
R1215 1.5K
C1220 1200P
C1215 16V22
C1241 0.01
IC1203
IC1203 C0ABBB000297 DUAL OP-AMP IC
R1212 1.5K
R1221 1K
C1211 5600P
R1218 1.5K
C1221 16V22
C1224 1200P
C1227 390P
C1242 0.01
R1229 2.7K
R1206 5.6K
C1212 1800P
R1230 5.6K
C1236 16V10
R1242 47K
TP
LIN+
LIN-
R1119 1.5K
R1118 1.5K
AGND
MUTEC
SWOUT
COUT
SLOUT
SROUT
ROUT
LOUT
RIN+
RIN-
R1120 1.5K
R1121 1.5K
CN403B
TO B MAIN CIRCUIT (CN403A) ON SCHEMATIC DIAGRAM-3
INT42
CS42
INT49
CDOUT42
DSP_OFF
RST42
CDOUT49
R1410 0
R1408 0
R1402 0
R1407 0
R1411 0
R1409 0
R1401 0
CDIN
R1406 0
CCLK
R1405 0
CS49
R1404 0
FINT49
RST49
R1403 0
DGND
FCS49
CN904B
TO B MAIN CIRCUIT (CN904A) ON SCHEMATIC DIAGRAM-5
-7.5V
DGND
+7.5V
CN906
TO B MAIN CIRCUIT (JW906) ON SCHEMATIC DIAGRAM-5
CN405
TO B MAIN CIRCUIT (JW405) ON SCHEMATIC DIAGRAM-5
2/2 SA-HT40GN/GT DSP CIRCUIT

SCHEMATIC DIAGRAM - 3

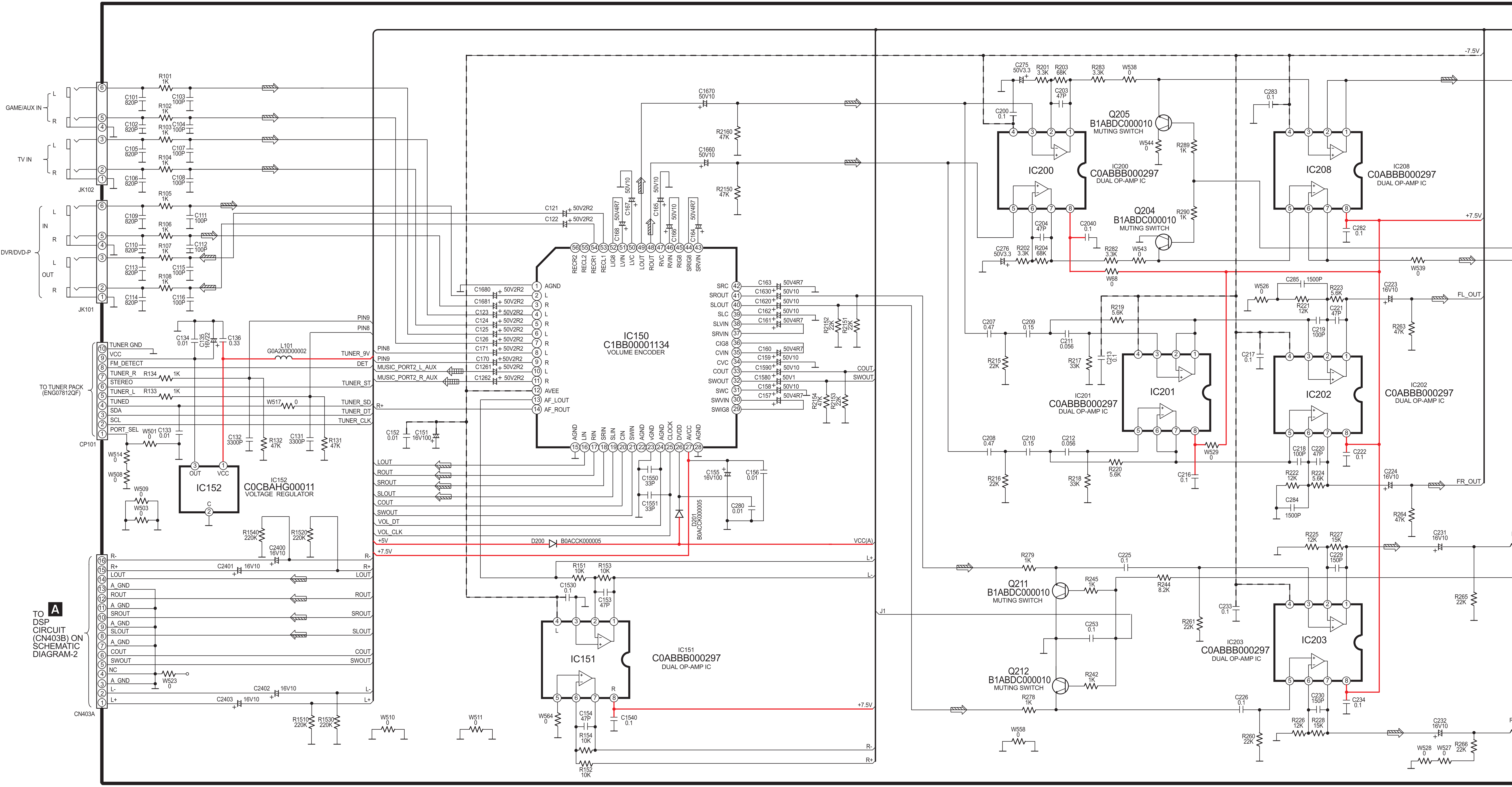
B MAIN CIRCUIT

: +B SIGNAL LINE

- - - : -B SIGNAL LINE

: MAIN SIGNAL LINE

: AUX SIGNAL LINE



GAME/AUX IN
TV IN
DVR/DVD-P
IN
OUT
JK102
JK101
TO TUNER PACK (ENG07812QF)
CP101
TUNER GND
VCC
FM_DETECT
TUNER_R
STEREO
TUNER_L
TUNED
SDA
SCL
PORT_SEL
IC152
C0CBAHG00011
VOLTAGE REGULATOR
OUT
VCC
L101
G0A200D00002
TUNER_9V
DET
TUNER_ST
TUNER_SD
TUNER_DT
TUNER_CLK
PIN8
PIN9
MUSIC_PORT2_L_AUX
MUSIC_PORT2_R_AUX
IC150
C1BB00001134
VOLUME ENCODER
AGND
AVEE
AF_LOUT
AF_ROUT
SRC
SROUT
SLOUT
SLC
SLVIN
SRVIN
CIG8
CVIN
CVC
COUT
SWOUT
SWC
SWVIN
SWIG8
RECR2
RECL2
RECR1
RECL1
LIG8
LVIN
LVC
LOUT
ROUT
RVC
RVIN
RIG8
SRIG8
SRVIN
LIN
RIN
SRIN
SLIN
CIN
SWIN
DGND
CLOCK
DVDD
AVCC
D200
B0ACCK000005
D201
B0ACCK000005
VCC(A)
+5V
+7.5V
R-
R+
L+
L-
VOL_DT
VOL_CLK
IC151
C0ABBB000297
DUAL OP-AMP IC
IC200
C0ABBB000297
DUAL OP-AMP IC
IC201
C0ABBB000297
DUAL OP-AMP IC
IC202
C0ABBB000297
DUAL OP-AMP IC
IC203
C0ABBB000297
DUAL OP-AMP IC
IC208
C0ABBB000297
DUAL OP-AMP IC
Q204
B1ABDC000010
MUTING SWITCH
Q205
B1ABDC000010
MUTING SWITCH
Q211
B1ABDC000010
MUTING SWITCH
Q212
B1ABDC000010
MUTING SWITCH
-7.5V
+7.5V
FL_OUT
FR_OUT
J1
TO A DSP CIRCUIT (CN403B) ON SCHEMATIC DIAGRAM-2
CN403A
A_GND
SROUT
SLOUT
COUT
SWOUT
NC